ENGLISH

CDI-E377

Canon

PowerShot SX110 IS

Camera User Guide



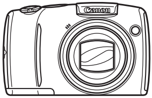
Getting Started p. 9

Ensure that you read the Safety Precautions (pp. 179 – 188).

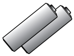
Confirming the Package Contents

The following items are included in the package. If something is missing please contact the retail outlet at which you purchased the product.

1 **Camera**



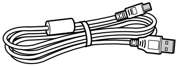
2 **AA Alkaline Batteries (×2)**



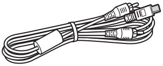
3 **Memory Card (32 MB)**



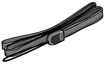
4 **Interface Cable IFC-400PCU**



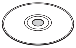
5 **AV Cable AVC-DC400**



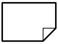
6 **Wrist Strap WS-DC5**



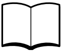
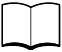
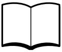
7 **Canon Digital Camera Solution Disk**



8 **Warranty Card**



9 **User Guides**

-  Camera User Guide (this guide)
-  Direct Print User Guide (Connecting the camera to a printer)
-  Software Starter Guide (Connecting the camera to a computer)
- “Canon Customer Support” Leaflet

See the PDF manuals available on the Canon website.
http://web.canon.jp/imaging/information-e.html

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ZoomBrowser EX/ImageBrowser Software User Guide

You may not be able to achieve the full performance of this camera with the included memory card.

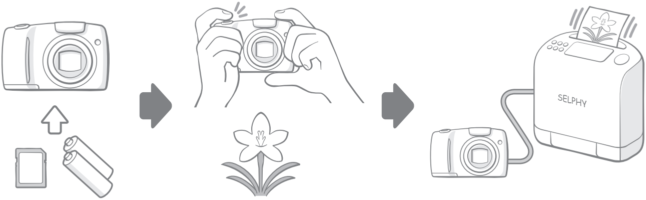
Let's Get Started!

This guide is divided into the following two sections.

First...

Getting Started p. 9

This section explains how to prepare the camera for use and the basics of shooting, viewing and printing images. Start out by familiarizing yourself with the camera and mastering the basics.



Next...

Learning More p. 39

Once you have mastered the basics, use the camera's many features to shoot more challenging photos. Details on using each function are described in this section, including how to connect the camera to a television to view images.

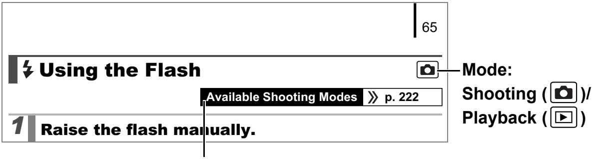


Table of Contents

Items marked with a ☆ are lists or charts that summarize camera functions or procedures.

About this Guide

Symbol Conventions in this Guide



Some functions may not be available in certain shooting modes.
If there is no notation to that effect, the function may be used in all modes.

: This mark denotes issues that may affect the camera's operation.

: This mark denotes additional topics that complement the basic operating procedures.

Explanations in this guide are based on the camera's default settings at time of purchase.
The illustrations and screenshots used in this guide may differ from the actual camera.

You can use SD memory cards, SDHC (SD High Capacity) memory cards, MultiMediaCards, MMCplus cards and HC MMCplus cards in this camera. These are collectively referred to as memory cards in this guide.

Please Read

Test Shots

Before you try to photograph important subjects, we highly recommend that you shoot several trial images to confirm that the camera is operating and being operated correctly.
Please note that Canon Inc., its subsidiaries and affiliates, and its distributors are not liable for any consequential damages arising from any malfunction of a camera or accessory, including memory cards, that results in the failure of an image to be recorded or to be recorded in a way that is machine readable.

Warning Against Copyright Infringement

Please note that Canon digital cameras are intended for personal use and should never be used in a manner that infringes upon or contravenes international or domestic copyright laws and regulations. Please be advised that in certain cases the copying of images from performances, exhibitions, or commercial properties by means of a camera or other device may contravene copyright or other legal rights even if the image was shot for personal use.

Warranty Limitations

This camera's warranty is only effective in the country of sale. If a problem arises while the camera is in use abroad, please convey it back to the country of sale before proceeding with a warranty claim to a Canon Customer Support Help Desk.
For Canon Customer Support contacts, please see the customer support list supplied with your camera.

Camera Body Temperature

If your camera is used for prolonged periods, the camera body may become warm. Please be aware of this and take care when operating the camera for an extended period.

About the LCD Monitor

The LCD monitor is produced with extremely high-precision manufacturing techniques. More than 99.99% of the pixels operate to specification. Less than 0.01% of the pixels may occasionally misfire or appear as red or black dots. This has no effect on the recorded image and does not constitute a malfunction.

Video Format

Please set the camera's video signal format to the one used in your region before using it with a TV monitor (p. 163).

Language Setting

Please see *Setting the Display Language* (p. 14) to change the language setting.

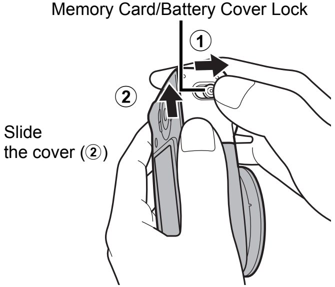
Getting Started

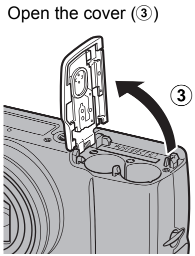
- Preparations
- Shooting Still Images
- Viewing Still Images
- Erasing
- Printing
- Embedding the Date in the Image Data
- Shooting Movies
- Viewing Movies
- Downloading Images to a Computer
- System Map

Preparations

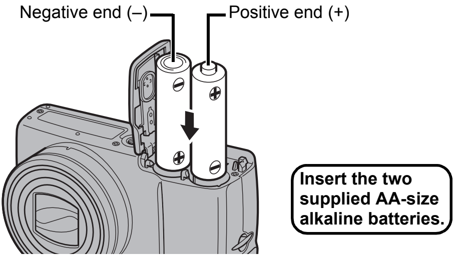
Installing the Batteries and Memory Card

1. Slide the memory card/battery cover lock ① and hold it open while sliding the cover ② and opening it (③).

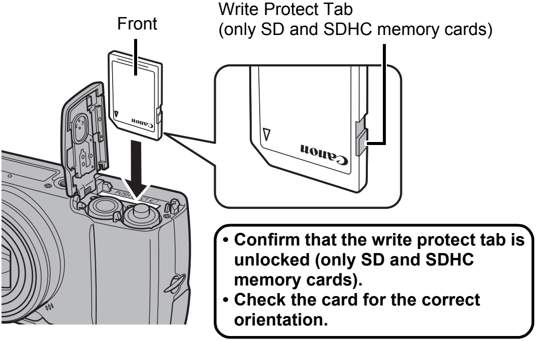




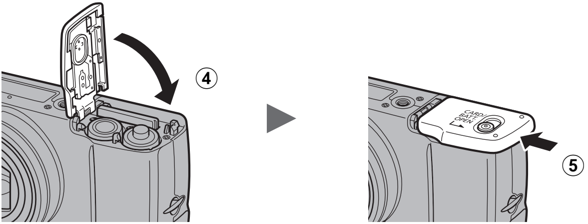
2. Install two batteries.



3. Insert the memory card until it clicks into place.



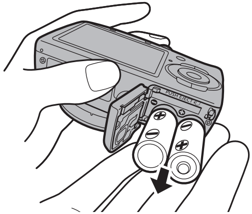
4. Close the cover (④), and press downward as you slide it until it clicks into place (⑤).



Ensure that the memory card is correctly oriented before inserting it in the camera. Inserting it backward may cause the camera to fail to recognize the memory card or to malfunction.

To Remove the Batteries

Open the cover and remove the batteries.



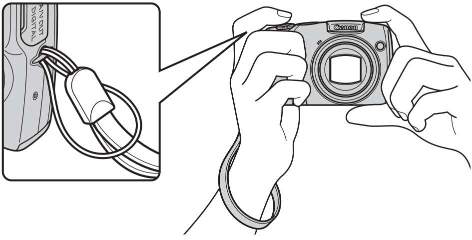
Take care that you do not drop the batteries.

To Remove the Memory Card

Push the memory card with your finger until you hear a click, then release it.

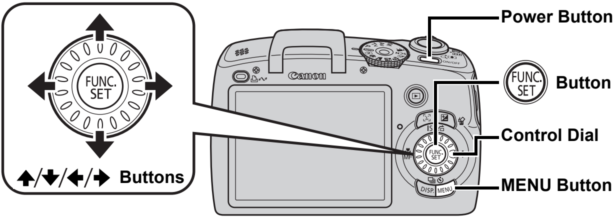


Use the wrist strap to avoid dropping the camera during use.



Setting the Date and Time

The Date/Time settings menu will appear the first time the power is turned on.



1. Press the power button.

2. Select the month, day, year and time, and the display order.



1. **Use the ← or → button to select an option.**
2. **Use the ↑ or ↓ button to set the value.**
   - You can also set the value by using the control dial.

3. Press the FUNC./SET button.

To Change a Previously Set Date/Time

Use the following procedures to display the Date/Time settings menu, and then perform Steps 2 and 3 above.

1. Press the MENU button.



2. Use the ← or → button to select the (Set up) menu.

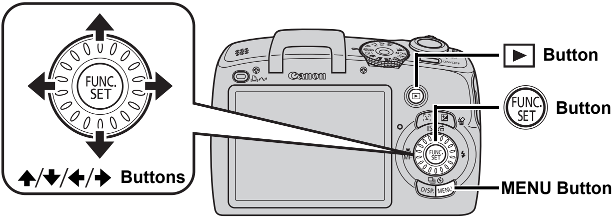
3. Use the ↑ or ↓ button to select [Date/Time].

4. Press the FUNC./SET button.

The date/time setting screen will appear when the capacity of the lithium date/time battery is depleted (p. 194).

Setting the Display Language

You can change the language displayed in the LCD monitor menus and messages.



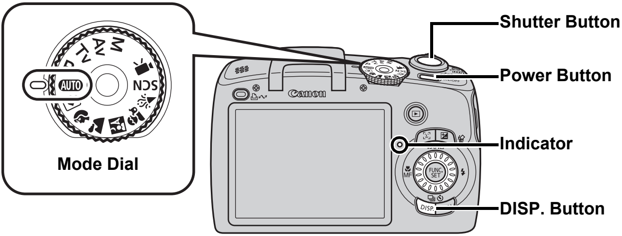
1. Press the ▶ (playback) button.

2. Hold down the FUNC./SET button and press the MENU button.

3. Use the ▲, ▼, ◀ or ▶ button to select a language.

4. Press the FUNC./SET button.

Shooting Still Images (AUTO Mode)



1. Press the power button.

- The start-up sound will play and the start-up image will display in the LCD monitor.
- Pressing the power button again turns the power off.

2. Select a shooting mode.

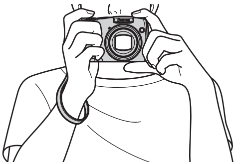
1. Set the mode dial to AUTO.



3. Aim the camera at the subject.

Avoiding Camera Shake

Keep your arms tight against your body while holding the camera firmly by the sides. Using a tripod is also effective.



4. Press the shutter button lightly (halfway) to focus.

- When the camera focuses, it beeps twice and the indicator lights green (orange when the flash fires).
- If [flash icon] blinks red, we recommend shooting with a flash (p. 65) (the message “Raise the flash” also appears in AUTO mode).

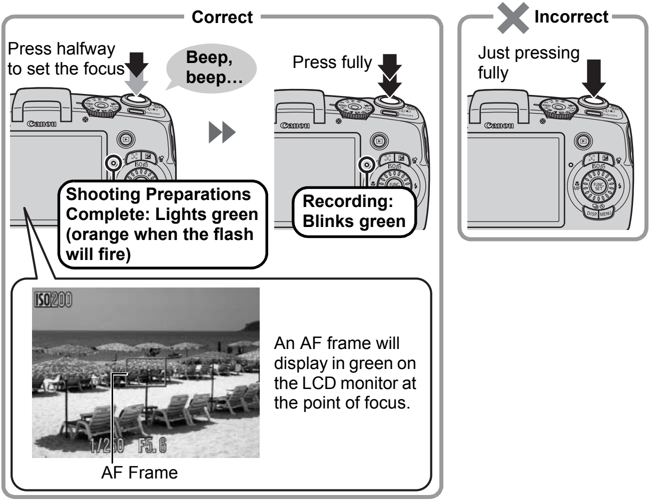
5. Press the shutter button fully (all the way) to shoot.

- The shutter sound will play once and the image will record.
- Recorded images are displayed on the LCD monitor for approximately 2 seconds immediately after shooting (Rec. Review). You can shoot by pressing the shutter button even when an image is being displayed.
- If you hold the shutter button down after a shot, the image will continue to display.
- The indicator will blink green and the file will record to the memory card.

To Shoot Images in Focus

The camera automatically sets the focus when you press the shutter button halfway*.

* The shutter button has a two-stage action. Pressing it down to the first stage is referred as “pressing halfway”.

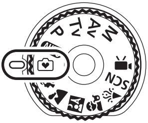


Mute Setting
Pressing the **DISP.** button while switching on the camera power will set the mute setting to [On] to silence all camera sounds. The setting can be changed with the [Mute] option in the Set up menu (p. 56).

Easy Mode (Recommended for Beginners)

Shooting and viewing images can usually be performed most easily by setting the mode dial to (Easy mode) (p. 78). This mode is recommended for beginners to avoid confusion.

1. Set the mode dial to (Easy mode).



2. Shooting an image.

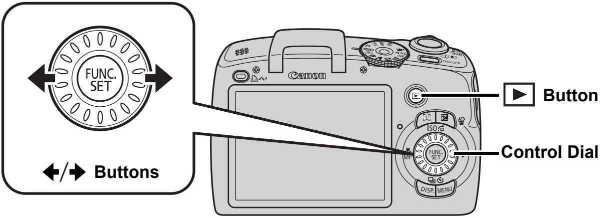
1. **Press the shutter button halfway to focus.**
   - When the camera focuses, a green AF frame will display.
2. **Press the shutter button fully to shoot.**

3. Viewing the images.

1. **Press the (playback) button.**
2. **Use the ← or → button to display the image you wish to view.**

- You can also select images by turning the control dial.

Viewing Still Images



1. Press the ▶ (playback) button.

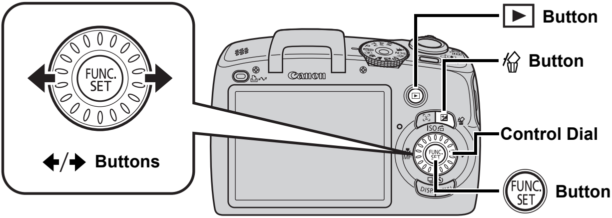
2. Use the ← or → button to display the image you wish to view.

- Use the ← button to move to the previous image and the → button to move to the next image.
- The images advance more quickly if you keep the button pressed, but they will appear coarse.
- You can also select images by using the control dial. Turning it counterclockwise displays the previous image while turning it clockwise displays the next image.



- In the Playback menu, you can set [Resume] to either [Last seen]* or [Last shot]. (* Default setting)
- If you select [Last seen], the last image viewed will display (Resume Playback).
- The following actions will display the most recent image regardless of the [Resume] settings: shooting an image, changing the memory card, or editing an image on the memory card using a computer.

Erasing



1. Press the ▶ (playback) button.

2. Use the ← or → button to select an image to erase and press the 🗑 button.

You can also select images by using the control dial.

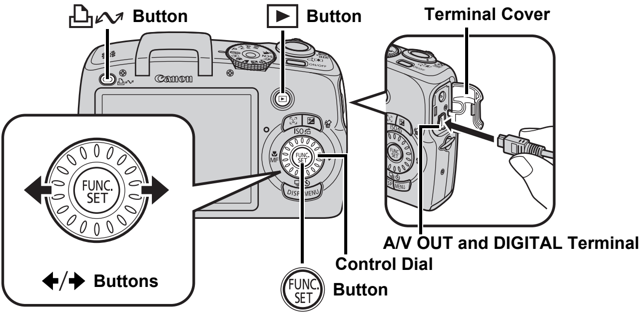
3. Confirm that [Erase] is selected and press the FUNC./SET button.

To exit instead of erasing, select [Cancel].



Please note that erased images cannot be recovered. Exercise adequate caution before erasing an image.

Printing



1. Connect the camera to a direct print compatible printer.

- Slide the camera's terminal cover to the left to open and insert the interface cable all the way into the terminal.
- See the printer's user guide for connection instructions.
- Since this camera uses a standard protocol (PictBridge), you can use it with other PictBridge-compliant printers in addition to Canon-brand printers.

For details, see the *Direct Print User Guide*.

2. Turn on the printer.

3. Press the camera's ▶ (playback) button to turn on the power.

- The button will light blue.

4. Use the ← or → button to select an image to print and press the button.

- The button will blink blue and printing will start.
- You can also select images by using the control dial.
- After you finish printing, turn off the camera and the printer and disconnect the interface cable.

Printing from a Print List

You can add images directly to a print list by merely pressing the ⎙∿ button immediately after shooting or playing back an image. You can then print the images from the print list easily, when connecting the camera to a printer.

Add to the Print List

1. Press the ⎙∿ button (still images only).

2. Add to the print list.



1. **Use the ▲ or ▼ button to select the number of print copies.**
2. **Use the ◄ or ► button to select [Add].**
3. **Press the FUNC./SET button.**

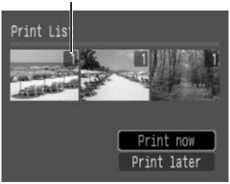
- To remove an image from the print list, press the ⎙∿ button again, use the ◄ or ► button to select [Remove] and press the **FUNC./SET** button.

Printing Images in a Print List

This explanation is based on the use of a Canon SELPHY ES series or SELPHY CP series printer.

1. Connect the camera to the printer.

2. Print the image.



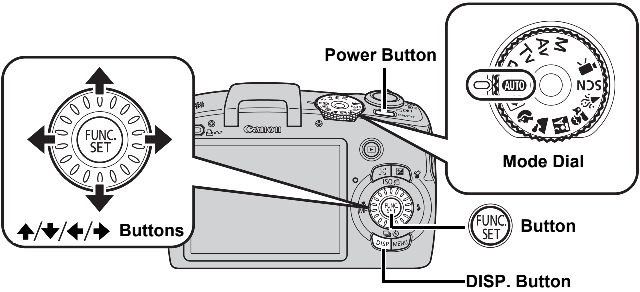
Number of copies to print

1. **Use the ▲ or ▼ button to select [Print now].**
   - You can use the ◄ or ► button to confirm the images added to the print list.
2. **Press the FUNC./SET button.**
   - Printing will start.
   - If printing is halted and resumed, printing will start from the next image in the queue.

Embedding the Date in the Image Data

This section explains how to embed date information on images as they are recorded (Date Stamp).

- The date stamp cannot be deleted from the image data once it has been embedded. Ensure that the camera's date/time is set correctly beforehand (p. 13).
- The image size is fixed to the 2M (1600 × 1200) setting and the compression to Fine (appropriate for printing L-size or postcard-size prints.)



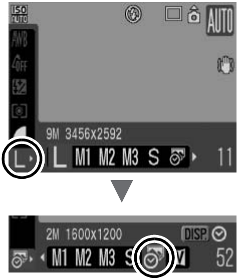
1. Press the power button.

2. Select a shooting mode.

1. Set the mode dial to AUTO.

- You can also make this setting in other shooting modes (except Easy mode, ISO 3200 in SCN mode and movie mode).

3. Select (2M 1600 × 1200).

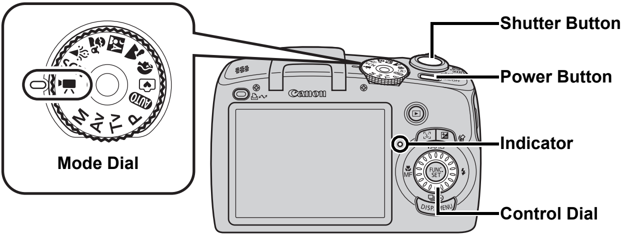


1. **Press the button.**
2. **Use the or button to select .**
3. **Use the or to select .**
   - The area that will not print displays in gray.
   - Press the **DISP.** button to switch to [Date & Time] with the or button.

You can use the following methods to imprint the date on images lacking imprinted date stamps.

- Set with the camera's Digital Print Order Format (DPOF) function (p. 148). Set [Date] option to [On] in [Print Settings] in the (Print) menu.
- Connect the camera to a printer and print. See the *Direct Print User Guide*.
- Insert a memory card into the printer and print. See your printer user guide.
- Use the supplied software. See the *Software Starter Guide*.

Shooting Movies (Standard Mode)



1. Press the power button.

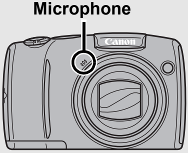
2. Select a shooting mode.

1. Set the mode dial to (Movie).
2. Use the control dial to select (Standard).



3. Aim the camera at the subject.

- Do not touch the microphone while recording.
- Do not press any buttons other than the shutter button. The sound that buttons make will be recorded in the movie.



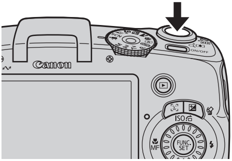
4. Press the shutter button halfway to focus.

- When the camera focuses, it beeps twice and the indicator lights green.
- The exposure, focus and white balance are automatically set.

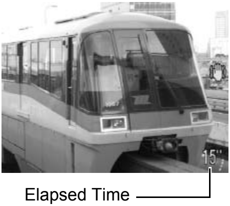


5. Press the shutter button fully to shoot.

- Recording starts.

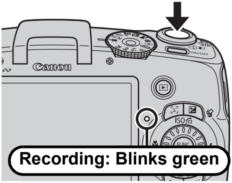


- During recording, the elapsed recording time and [●Rec.] will display in the LCD monitor.

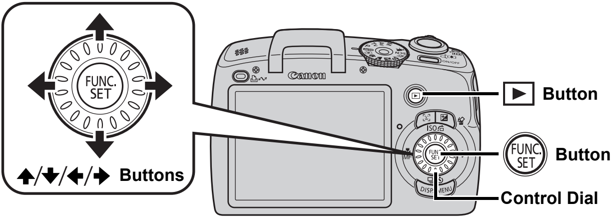


6. Press the shutter button fully again to stop recording.

- The indicator will blink green and the data will be recorded onto the memory card.
- Recording will stop automatically when the maximum recording time elapses, or the built-in memory or memory card become full.



Viewing Movies



1. Press the ▶ (playback) button.

2. Use the ◀ or ▶ button to display a movie and press the FUNC./SET button.

- Images with a SET movie icon are movies.
- You can also select images by using the control dial.



3. Use the ◀ or ▶ button to select ▶ (Play) and press the FUNC./SET button.

- The movie will start playing.
- If you press the **FUNC./SET** button during playback, you can pause and restart the movie.
- You can adjust the playback volume with the ▲ or ▼ button.



Downloading Images to a Computer

We recommend using the supplied software.

Items to Prepare

- **Camera and computer**
- **Canon Digital Camera Solution Disk supplied with the camera**
- **Interface cable supplied with the camera**

System Requirements

Please install the software on a computer meeting the following minimum requirements.

Windows

OS	Windows Vista (including Service Pack 1) Windows XP Service Pack 2
Computer Model	The above OS should be pre-installed on computers with built-in USB ports.
CPU	Windows Vista : Pentium 1.3 GHz or higher Windows XP : Pentium 500 MHz or higher
RAM	Windows Vista : 512 MB or more Windows XP : 256 MB or more
Interface	USB
Free Hard Disk Space	• Canon Utilities - ZoomBrowser EX : 200 MB or more - PhotoStitch : 40 MB or more
Display	1,024 × 768 pixels/High Color (16 bit) or better

Macintosh

OS	Mac OS X (v10.4 – v10.5)
Computer Model	The above OS should be pre-installed on computers with built-in USB ports.
CPU	PowerPC G3/G4/G5 or Intel Processor
RAM	Mac OS X v10.5 : 512 MB or more Mac OS X v10.4 : 256 MB or more
Interface	USB
Free Hard Disk Space	• Canon Utilities - ImageBrowser : 300 MB or more - PhotoStitch : 50 MB or more
Display	1,024 × 768 pixels/ 32,000 Colors or better

Preparing to Download Images

1. Installing the software.

Windows

1. **Place the Canon Digital Camera Solution Disk in the computer's CD-ROM drive.**
2. **Click [Easy Installation].**

   Follow the onscreen messages to proceed with the installation.



3. **Click [Restart] or [Finish] once the installation is complete.**

   When the installation is finished, [Restart] or [Finish] will display. Click the button that appears.



4. **Remove the CD-ROM from the drive when your normal desktop screen appears.**

Macintosh

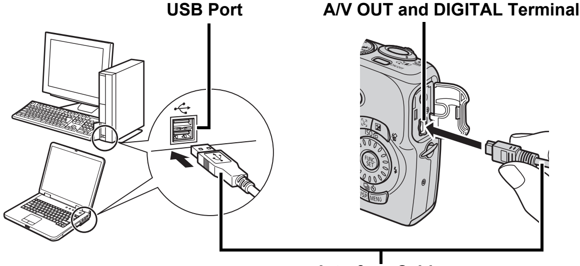
Double-click the icon in the CD-ROM window. When the installer panel appears, click [Install]. Follow the onscreen instructions to proceed.



2. Connecting the camera to a computer.

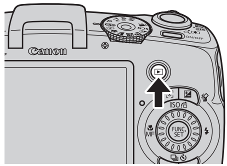
1. Connect the supplied interface cable to the computer's USB port and to the camera's A/V OUT and DIGITAL terminal.

Slide the camera's terminal cover to the left to open and insert the interface cable all the way into the terminal.



3. Preparing to download images to the computer.

1. Press the ▶ (Playback) button to turn on the camera.



4. Open CameraWindow.

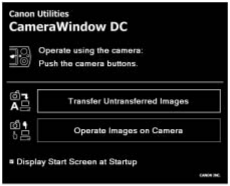
Windows

Select [Canon CameraWindow] and click [OK].



If the window above does not appear, click the [Start] menu and select [All Programs] or [Programs], followed by [Canon Utilities], [CameraWindow], [CameraWindow] and [CameraWindow].

CameraWindow appears.



Macintosh

The CameraWindow will appear when you establish a connection between the camera and computer. If it fails to appear, click the [CameraWindow] icon on the Dock (the bar which appears at the bottom of the desktop).

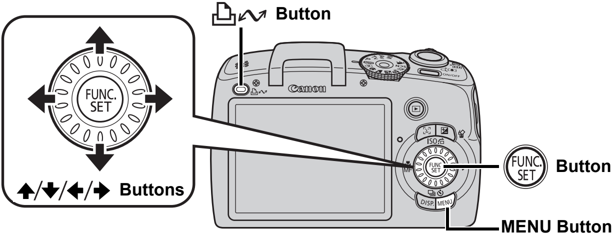
Preparations for downloading images are now finished. Please proceed to the *Downloading Images Using the Camera (Direct Transfer)* section (p. 31).

Refer to the *Software Starter Guide* for details on downloading images using the computer.

Downloading Images Using the Camera (Direct Transfer)

Use this method to download images using camera operations.

Install the software before downloading images via the direct transfer method for the first time (p. 28).



1. Confirm that the Direct Transfer menu is displayed on the camera's LCD monitor.

- The button will light blue.
- Press the **MENU** button if the Direct Transfer menu fails to appear.



Direct Transfer Menu

2. Press the button.

- Images not previously downloaded will download to the computer.

You can also use the following options in the Direct Transfer menu to set the method for downloading images.

All Images	Transfers and saves all images to the computer.
New Images	Transfers and saves to the computer only the images that have not been previously transferred.
DPOF Trans. Images	Transfers and saves to the computer only the images with DPOF Transfer Order settings.
Select & Transfer	Transfers and saves single images to the computer as you view and select them.
Wallpaper	Transfers and saves single images to the computer as you view and select them. The transferred images display as the background on the computer desktop.

All Images/New Images/DPOF Trans. Images

1. Use the ↑ or ↓ button to select , or and press the button.



- The images will download. The button will blink blue while downloading is in progress.
- The display will return to the Direct Transfer menu when the download is complete.
- Pressing the **FUNC./SET** button will cancel a download in progress.

Select & Transfer/Wallpaper

1. Use the ↑ or ↓ button to select or and press the button (or FUNC./SET button).

2. Use the ← or → button to select images to download and press the ⎙∿ button.

- The images will download. The ⎙∿ button will blink blue while downloading is in progress.



3. Press the MENU button after downloading finishes.

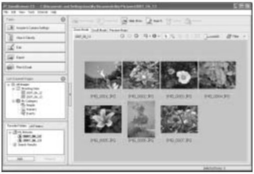
- You will return to the Direct Transfer menu.

Only JPEG images can be downloaded as wallpaper for a computer.

The option selected with the ⎙∿ button is retained even when the camera's power is turned off. The previous setting will be in effect the next time the Direct Transfer menu is displayed. The image selection screen will appear directly when the [Select & Transfer] or the [Wallpaper] option was last selected.

Click [×] at the bottom right of the window to close CameraWindow. The downloaded images will display on the computer.

Windows



ZoomBrowser EX

Macintosh

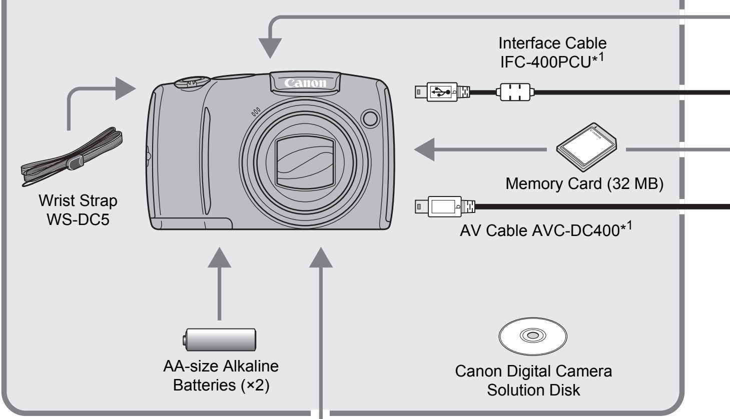


ImageBrowser

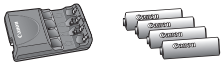
By default, the downloaded images are saved into folders according to their shooting dates.

System Map

Supplied with Camera



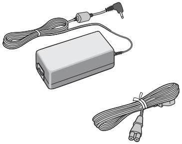
Battery and Charger Kit CBK4-300*5



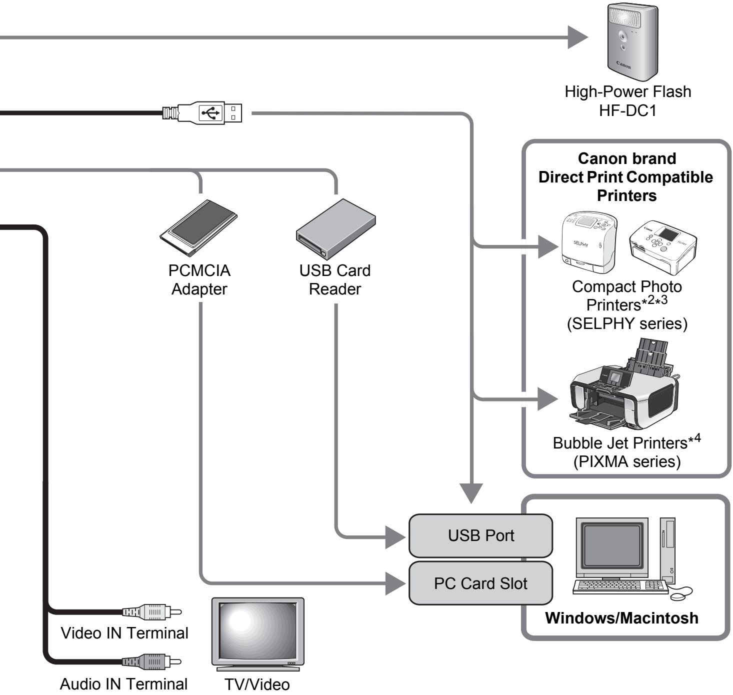
- ■ Battery Charger CB-5AH/CB-5AHE
- ■ AA-size NiMH batteries NB-3AH (×4)

- NiMH Battery NB4-300 (set of 4 AA-size) also available separately.
- Two batteries are used for this camera.

AC Adapter Kit ACK800



- ■ Compact Power Adapter CA-PS800
- ■ Power Cord



*1 Also available for purchase separately.

*2 See the user guide supplied with the printer for more information on the printer.

*3 This camera can also be connected to the CP-10/CP-100/CP-200/CP-300.

*4 See the user guide supplied with the Bubble Jet printer for more information on the printer and interface cables.

*5 Battery and Charger Kit CBK4-200 can also be used.

Optional Accessories

The following camera accessories are sold separately.
Some accessories are not sold in some regions, or may no longer be available.

Flash

- **High-Power Flash HF-DC1**
  This attachable supplementary flash can be used to capture photographic subjects that are too distant for the built-in flash to illuminate.

Power Supplies

- **AC Adapter Kit ACK800**
  This kit lets you power the camera from any standard household power outlet. Recommended to power a camera for an extended period of time or when connecting to a computer.
  (Cannot be used to charge the camera batteries.)
- **Battery and Charger Kit CBK4-300**
  This dedicated battery charger kit includes both a charger unit and four rechargeable AA-size NiMH (nickel metal hydride) batteries. Convenient when taking or playing back large numbers of images. You can also purchase NiMH Battery NB4-300, a set of four rechargeable AA-size NiMH batteries separately.

Other Accessories

- **Interface Cable IFC-400PCU**
  Use this cable to connect the camera to a computer, Compact Photo Printer (SELPHY series), or to a Bubble Jet printer (refer to your Bubble Jet printer user guide).
- **AV Cable AVC-DC400**
  Use this cable to connect the camera to a TV set.

Direct Print Compatible Printers

Canon offers the following separately sold printers for use with the camera. You can produce photo quality prints quickly and easily by connecting them to the camera with a single cable and operating the camera's controls.

- **Compact Photo Printers (SELPHY series)**
- **Bubble Jet Printers (PIXMA series)**

For more information, visit your nearest Canon retailer.

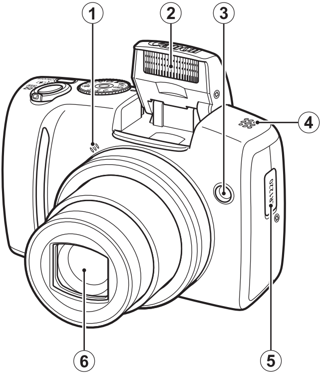
Use of genuine Canon accessories is recommended.

This product is designed to achieve excellent performance when used with genuine Canon accessories. Canon shall not be liable for any damage to this product and/or accidents such as fire, etc., caused by the malfunction of non-genuine Canon accessories (e.g., a leakage and/or explosion of a battery pack). Please note that this warranty does not apply to repairs arising out of the malfunction of non-genuine Canon accessories, although you may request such repairs on a chargeable basis.

Learning More

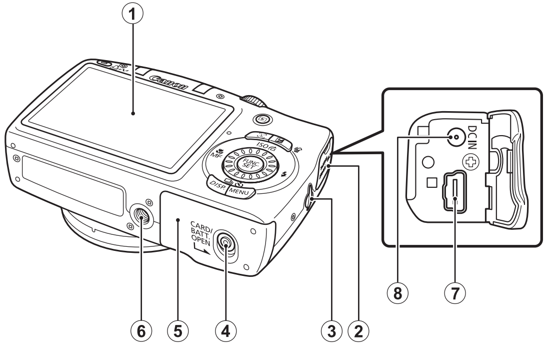
Components Guide

■ Front View



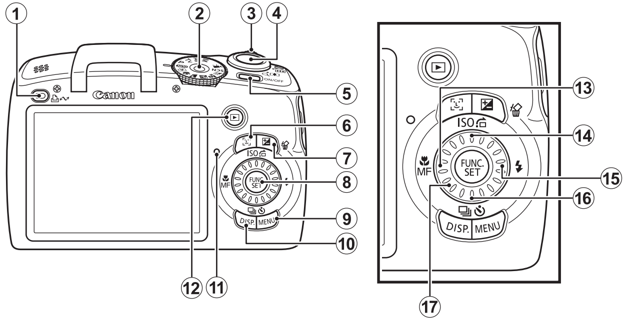
1. Microphone (pp. 24, 144)
2. Flash (p. 65)
3. Lamp (AF Assist Beam: p. 53, Red-Eye Reduction Lamp: p. 95, Self-Timer Lamp: p. 68)
4. Speaker
5. Date Battery Holder
6. Lens

■ Back View



1. Screen (LCD Monitor) (p. 58)
2. Terminal Cover
3. Strap Mount (p. 12)
4. Memory Card/Battery Cover Lock (p. 10)
5. Memory Card/Battery Cover (p. 10)
6. Tripod Socket
7. A/V OUT (Audio/Video output) and DIGITAL Terminal (pp. 20, 29, 163)
8. DC IN (Power Input) Terminal (p. 191)

■ Controls



① Print/Share (Print/Share) Button (pp. 20, 31, 122)

② Mode Dial (pp. 15, 24, 77)

③ Zoom Lever (pp. 60, 124)
Shooting: (Wide Angle)/ (Telephoto)
Playback: (Index)/ (Magnify)

④ Shutter Button (p. 15)

⑤ Power Button (pp. 15, 24)

⑥ (Face Selector) Button (pp. 104, 126)

⑦ (Exposure)/ (Single Image Erase) Button (pp. 113, 19)

⑧ **FUNC./SET** (Function/Set) Button (p. 46)

⑨ **MENU** Button (p. 47)

⑩ **DISP.** (Display) Button (p. 58)

⑪ Indicator (p. 45)

⑫ (Playback) Button (p. 18)

⑬ (Macro)/**MF** (Manual Focus)/ ← Button (pp. 67, 106)

⑭ ISO/ (Jump)/ ↑ Button (pp. 74, 129)

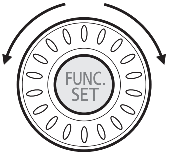
⑮ (Flash)/ → Button (p. 65)

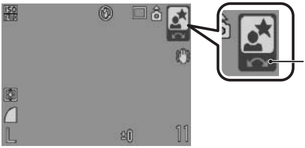
⑯ (Continuous Shooting)/ (Self-Timer)/ ↓ Button (pp. 93, 68)

⑰ Control Dial (p. 43)

Using the Control Dial

Turning the control dial counterclockwise is equivalent to pressing the ← button, while turning the control dial clockwise is equivalent to pressing the → button (it is equivalent to pressing the ↑ or ↓ button with some functions).
You can perform the following operations when you turn the control dial.





Operation is carried out using control dial.

■ The Shooting Functions

- Selecting the shooting modes (pp. 79, 89)
- Selecting ⚡/🌷/⧉/⏱/ISO (pp. 65, 67, 93, 68, 74)
- Selecting the **FUNC.** menu item (p. 46)
- Selecting the shutter speed and the aperture value (pp. 83, 85)
- Adjusting the focus in manual focus mode (p. 108)
- Program Shift (p. 111)
- Adjusting the exposure (p. 113)

■ The Playback Functions

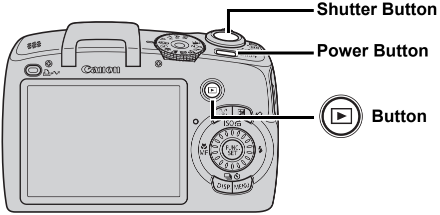
- Selecting an image (pp. 18, 124, 125, 129)
- Operating when setting/editing (pp. 136, 144, 148, 152)
- Operating when editing movies (pp. 26, 132)

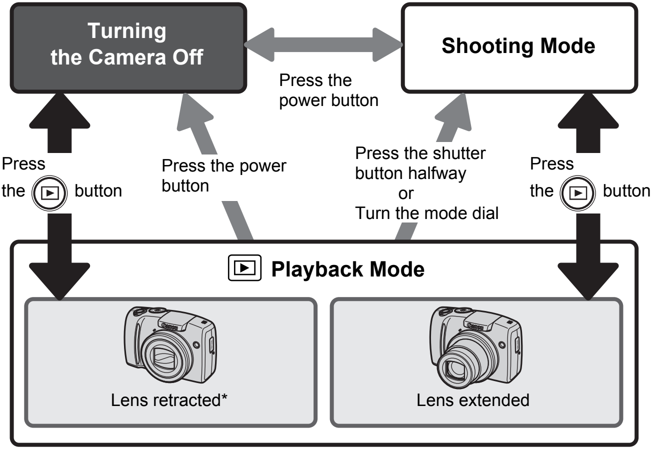
■ The Shooting and Playback Functions

- Selecting a menu item and operating when setting (pp. 46, 47)

Using the ▶ Button

The ▶ button can turn the camera on/off and switch between the shooting/playback modes.





* The amount of time before the lens automatically retracts can be set in [Lens Retract] in the (Set up) menu (p. 57).

Indicator

The indicator on the back of the camera will light or blink under the following conditions.

Green : Ready to shoot (camera beeps twice*)/ when display off

Blinking Green : Image recording/reading/erasing/transferring (when connected to a computer/printer)

Orange : Ready to shoot (flash on)

Blinking Orange : Ready to shoot (camera shake warning)

* If the camera has difficulty focusing, it beeps once. However, it does not beep when ready to shoot or when it has difficulty focusing in Easy mode.

Never do the following while the indicator on the back blinks green. These actions may corrupt image data.

- Shake or jolt the camera
- Shut off the power, or open the memory card/battery cover

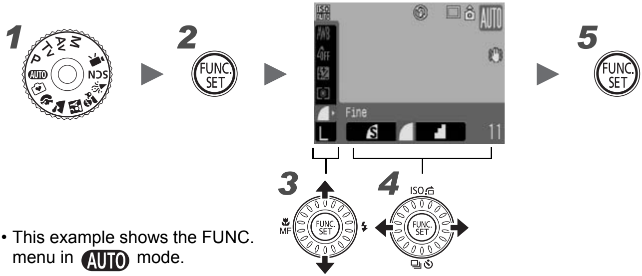
Basic Operations

Menus and Settings

Settings for the shooting or playback modes or such camera settings as the print settings, date/time and sounds are set using the FUNC. menu or the Rec., Play, Print or Set up menu.

FUNC. Menu (FUNC./SET Button)

This menu sets many of the common shooting functions.



• This example shows the FUNC. menu in AUTO mode.

1 Set the mode dial to the shooting mode you want to use.

2 Press the FUNC./SET button.

3 Use the ▲ or ▼ button to select a menu item.

Some items may not be selectable in some shooting modes.

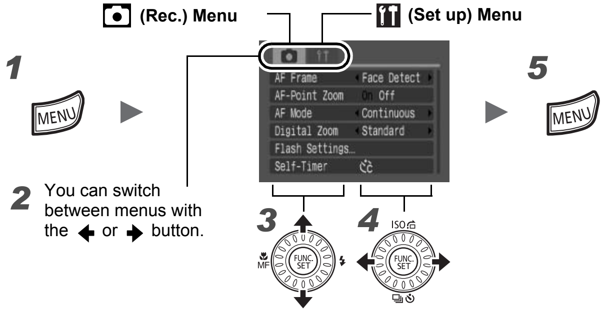
4 Use the ◀ or ▶ button to select an option for the menu item.

- Items showing the DISP. icon can be changed with the **DISP.** button.
- After selecting an option, you can press the shutter button to shoot immediately. After shooting, the menu will appear again, allowing you to adjust the settings easily.
- You can also use the control dial to select an option for the menu item.

5 Press the FUNC./SET button.

Rec., Play, Print and Set up Menu (MENU Button)

Convenient settings for shooting, playback or printing can be set with these menus.



• This example shows the Rec. menu in AUTO mode.

1 Press the MENU button.

2 Use the ← or → button to switch between menus.

- You can also use the zoom lever to switch between menus.
- The following menus are displayed.
  Shooting: Rec./ Set up
  Playback: Play/ Print/ Set up

3 Use the ↑ or ↓ button to select a menu item.

- Some items may not be selectable in some shooting modes.
- You can also use the control dial to select a menu item.

4 Use the ← or → button to select an option.

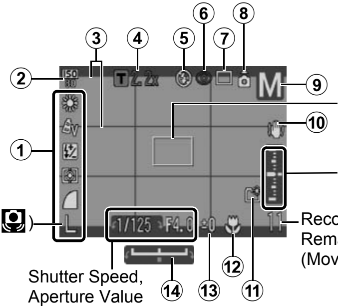
Menu items followed by an ellipsis (…) can only be set after pressing the **FUNC./SET** button to display the next menu. Press the **FUNC./SET** button again to confirm the setting and press the **MENU** button to return the menu screen.

5 Press the MENU button.

Information Displayed on the LCD Monitor and Menus

Available Shooting Modes » p. 222

Shooting Mode



	Information Displayed	Setting Method
①	White Balance or Recording Pixels, etc.	**FUNC./SET** button (FUNC. menu)
②	ISO Speed (ISO AUTO, ISO HI, ISO 80, ISO 100, ISO 200, ISO 400, ISO 800, ISO 1600, ISO 3200)	ISO button (ISO 3200 in SCN mode)
③	Display Overlays	**MENU** button (Rec. menu)
④	Digital Tele-Converter (T 1.3x/ 2.2x)/Digital Zoom Factor/ Safety Zoom ( )	**MENU** button (Rec. menu), Zoom Lever
⑤	Flash ( )	Raise/lower the flash, button
⑥	Red-Eye Corr. ( )	**MENU** button ([Flash Settings] menu in the Rec. menu)
⑦	Drive Mode ( )	/ button
⑧	Auto Rotate ( )	**MENU** button (Set up menu)
⑨	Shooting Mode	Mode dial, Control dial
⑩	Camera Shake ( )	**MENU** button (Rec. menu)
⑪	Create Folder ( )	**MENU** button (Set up menu)

	Information Displayed	Setting Method
⑫	Macro ( )/Manual Focus ( )	/ MF button
⑬	Exposure Compensation (-2 ··· +2)	button
⑭	Exposure Shift Bar (Movies) ( )	ISO button

About the Battery Charge Indicator

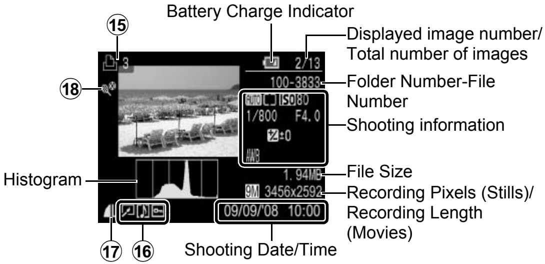
When the battery charge is low, the following icon and message will display. They will not display during sufficient battery charge.

Display on the LCD monitor	Summary
(blinking red)	Battery charge is low. Prepare to replace with new batteries soon.
"Change the batteries"	The batteries are depleted. Replace with new batteries.

If the indicator blinks orange and the camera shake warning icon ( ) displays, this indicates that a slow shutter speed may have been selected due to insufficient illumination. Use the following methods to shoot:

- Set the IS mode to any setting other than [Off] (p. 72)
- Raise the ISO speed (p. 74)
- Use the Auto ISO Shift (p. 75)
- Raise the flash to select a setting other than (p. 65)
- Attach the camera to a tripod or other device

Playback Mode (Detailed)



	Information Displayed	Setting Method
⑮	Print List	button, **MENU** button (Print menu)
⑯	Red-Eye Correction Function/ Resized image ( ) Image with Sound Memo ( ) Protection Status ( )	**MENU** button (Play menu)
⑰	Compression (Still Images)/Recording Pixels (Still Images), Movie (AVI)	**FUNC./SET** button (FUNC. menu)
⑱	Auto Category ( )	**MENU** button (Rec. menu)
	My Category ( )	**MENU** button (Play menu)

The following information may also be displayed with some images.

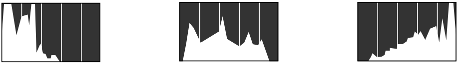
	A file in a format other than the WAVE format is attached.
	JPEG image not conforming to Design rule for Camera File System Standards.
RAW	RAW image
MOV	MOV data type
?	Unrecognized data type

- Information for images shot on other cameras may not display correctly.
- Overexposure Warning
  In the following cases, overexposed portions of the image blink.
  - When reviewing an image right after shooting in the LCD monitor (information view).
  - When using the detailed display mode during playback.

Histogram Function

The histogram is a graph that allows you to check the brightness of an image. The greater the bias toward the left in the graph, the darker the image. The greater the bias toward the right, the brighter the image. By using the exposure compensation function, you can correct the image brightness before shooting (p. 113).

Sample Histograms



Dark Image Balanced Image Bright Image

Shooting Mode

Menu Item	Options	Reference Page
Still Image		pp. 15, 77
Movie		pp. 24, 89

Settings by using the ±, /MF, ISO, or / button

Menu Item	Options	Reference Page
Exposure Compensation	-2 … +2	p. 113
Macro/Manual Focus	MF	pp. 67, 108
ISO Speed	ISO AUTO, ISO HI, ISO 80, ISO 100, ISO 200, ISO 400, ISO 800, ISO 1600	p. 74
Flash	A	p. 65
Drive Mode	AF LV 10 2 C (OFF will also display in movie mode.)	pp. 93, 68

FUNC. Menu

Menu Item	Options	Reference Page
White Balance	AWB H	p. 115
My Colors	OFF V N Se BW C	p. 118
Compensation/Flash Output		p. 95
Metering Mode		p. 114
Compression	S	p. 71
Recording Pixels (Still Image)	L M1 M2 M3 S (when the date has not been set) W	p. 70
Recording Pixels (Movie)	640 640 LP 320 160	p. 92

Rec. Menu

* Default setting

Menu Item	Options	Reference Page
AF Frame		p. 101
AUTO/ / / / / /SCN	Face Detect*/Center	
P/Tv/Av/M	Center*/Face Detect	
AF Frame Size	Normal*/Small	p. 103
AF-Point Zoom	On/Off*	p. 97
AF Mode	Continuous*/Single	p. 100
Digital Zoom		p. 61
(Still image)	Standard*/Off/1.3x/2.2x	
(Movie)	Standard*/Off (In standard movie mode only)	
Flash Settings		p. 95
Flash Mode	Auto*/Manual	
Flash Exp. Comp	–2 to 0* to +2	
Flash Output	Minimum*/Medium/Maximum	
Slow Synchro	On/Off*	
Red-Eye Corr.	On/Off*	
Red-Eye Lamp	On*/Off	
Safety FE	On*/Off	
Self-timer		p. 69
Delay	0 – 10*, 15, 20, 30 sec	
Shots	1 – 10 (Default is 3 shots)	
Safety Shift	On/Off*	p. 84
Auto ISO Shift	On/Off*	p. 75
MF-Point Zoom	On*/Off	p. 108
Safety MF	On*/Off	p. 109
AF-assist Beam	On*/Off	p. 40

Menu Item	Options	Reference Page
Review (Rec. Review)	Off/2* – 10 seconds/Hold	You can set the length of time images display after being shot (p. 16).
Review Info	Off*/Detailed/Focus Check	p. 98
Auto Category	On*/Off	p. 121
Disp. Overlay		p. 120
(Still image)	Off*/Grid Lines/3:2 Guide/Both	
(Movie)	Off*/Grid Lines	
IS Mode		p. 72
(Still image)	Continuous*/Shoot Only/ Panning/Off	
(Movie)	Continuous*/Off	
Set button	*	p. 122

Play Menu ▶

Menu Item	Reference Page
Slide Show	p. 136
My Category	p. 131
Red-Eye Correction	p. 137
Resize	p. 142
Sound Memo	p. 144
Protect	p. 146
Rotate	p. 134
Erase all	p. 147
Transfer Order	p. 152
Resume	p. 18
Transition	p. 135

Print Menu

Menu Item	Summary	Reference Page
Print	Displays the print menu.	–
Select Image & Qty.	Configures print settings for individual images as you view them.	p. 150
Select All Images	Configures print settings for all images.	
Clear All Selections	Removes all print settings from images.	
Print Settings	Sets the print style.	p. 148

Set up Menu

* Default setting

Menu Item	Options	Summary/Reference Page
Mute	On/Off*	Set to [On] to silence all operation sounds (except for when the memory card/battery cover is opened during recording).
Volume	Off/ 1 / 2*/ 3 / 4 / 5	Adjusts the volume of the start-up sound, operation sound, self-timer sound, shutter sound and playback sound. The volume cannot be adjusted if [Mute] is set to [On].
Start-up Vol.		Adjusts the volume of the start-up sound when the camera is turned on.
Operation Vol.		Adjusts the volume of the operation sound that beeps when any button other than the shutter button is pressed.
Selftimer Vol.		Adjusts the volume of the self-timer sound played 2 sec. before the shutter is released.
Shutter Volume		Adjusts the volume of the sound played when the shutter releases. The shutter sound does not play when a movie is recording.
Playback Vol.		Adjusts the playback volume of movies and sound memos.
Start-up Image	On*/Off	Sets whether or not the Start-up Image appears when the camera is powered on.
LCD Brightness	1 / 2 / 3 / 4*/ 5	Use the ← or → button to adjust the brightness. You can check the brightness while you are adjusting the setting.
Power Saving		
Auto Power Down	On*/Off	p. 154
Display Off	10 sec./20 sec./ 30 sec./1 min.*/ 2 min./3 min.	

Menu Item	Options	Summary/Reference Page
Date/Time		p. 13
Format		You can also select a low level format (p. 156).
File Numbering	Continuous*/ Auto Reset	p. 157
Create Folder		p. 159
Create New Folder	Check mark (On)/ No check mark (Off)	
Auto Create	Off*/Daily/Monday-Sunday/Monthly (You can also set an auto creation time.)	
Auto Rotate	On*/Off	p. 161
Distance Units	m/cm*/ ft/in	Sets the units for the zoom bar (p. 60)and MF indicator distance unit (p. 108).
Lens Retract	1 minute*/0 seconds	Sets the lens retraction timing when switching from shooting mode to playback mode.
Language		p. 14
Video System	NTSC/PAL	p. 163
Print Method	Auto*/	See below.
Reset All		p. 162

Print Method

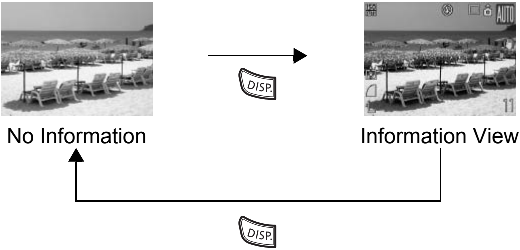
The connection method with the printer can be changed for printing. Although it is normally not necessary to change the setting, select when borderless printing an image shot in W (Widescreen) mode on wide size paper using Canon compact photo printer SELPHY CP750/CP740/CP730/CP720/CP710/CP510. As this setting will be stored to memory even when the power is turned off, to print using an image size other than W, return the mode to [Auto] (however, the connection method cannot be changed while connected to a printer).

The LCD Monitor Display

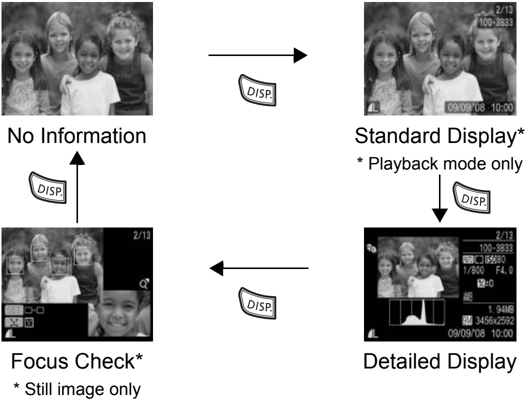
Switching LCD Monitor Display Modes

Each press of the **DISP.** button, changes the display mode of the LCD monitor (except the Easy mode). See *Information Displayed on the LCD Monitor and Menus* for details (p. 48).
(The following are the screens that display when shooting in AUTO mode.)

■ Shooting Mode



■ Playback Mode or Rec. Review (Right After Shooting)



- The LCD monitor will not switch to the detailed display or focus check display in magnified display (p. 124), or index playback mode (p. 125).
- The brightness of the LCD monitor can be changed in [LCD Brightness] in the (Set up) menu (p. 56).

Night Display

When shooting at dusk or during the evening when the dark surroundings make it difficult to view the LCD monitor, the camera's "night view" option displays the subject brightly in the LCD monitor. This will allow you to compose a shot even in dark environments (this setting cannot be turned off).

* Although noise may appear and the movement of the subject shown on the LCD monitor may appear somewhat jagged, there is no effect on the recorded image. The brightness of the image displayed in the monitor, and the brightness of the actual image recorded will be different.

Commonly Used Shooting Functions

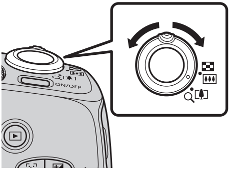
You can also use the control dial to select shooting modes or FUNC. menu options. See p. 43.

Using the Optical Zoom

The zoom can be adjusted from 36 – 360 mm (focal length) in 35mm film equivalent terms.

1 **Press the zoom lever toward [wide] or [tele].**

- [wide] Wide Angle: Zooms in from the subject.
- [tele] Telephoto: Zooms out on the subject.



Focus range (rough guide)

Zoom bar



Using the Digital Zoom/ Digital Tele-Converter

Available Shooting Modes » **p. 222**

You can combine digital zoom with optical zoom when shooting. The available shooting characteristics and focal lengths (35mm film equivalent) are as follows.

<table>
<tr><th>Selection</th><th>Focal Length</th><th>Shooting Characteristics</th></tr>
<tr><td>Standard</td><td>36 – 1440 mm</td><td>Enables shooting at zoom factors of up to 40x with digital and optical zoom combined.</td></tr>
<tr><td>Off</td><td>36 – 360 mm</td><td>Enables shooting without digital zoom.</td></tr>
<tr><td>1.3x</td><td>46.8 – 468 mm</td><td rowspan="2">Digital zoom is fixed at the selected zoom factor, and the focal length shifts to maximum telephoto.
This enables a faster shutter speed and less chance of camera shake than a shot taken at the same angle of view with [Standard] or [Off].</td></tr>
<tr><td>2.2x</td><td>79.2 – 792 mm</td></tr>
</table>

About the Safety Zoom

Depending on the number of recording pixels set, you can shift from optical zoom to digital zoom without pausing up to a factor where the image quality does not deteriorate (Safety Zoom). displays when reaching the maximum zoom factor without image deterioration. Pressing the zoom lever toward again allows you to zoom even further (not available in).

Depending on the number of recording pixels set, the Safety Zoom zone (factor) varies as follows (10.0x : the number is the zoom factor at which zooming pauses).

Recording pixels	Optical zoom	Digital zoom	
L	10.0x		
M1	10.0x		
M2		13.0x	
M3		22.0x	
S			40.0x
The color of the zoom bar	White ( )	Yellow ( )	Blue ( )
	Zone without deterioration		Zone with deterioration

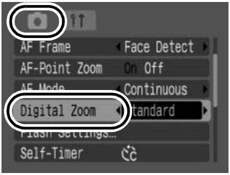
The digital zoom cannot be used in or modes.

Shooting with the Digital Zoom

1 **Select [Digital Zoom].**

1. Press the **MENU** button.

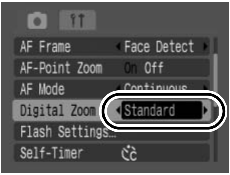
2. In the [camera] menu, use the ▲ or ▼ button to select [Digital Zoom].



2 **Make settings.**

1. Use the ◀ or ▶ button to select [Standard].

2. Press the **MENU** button.



3 **Press the zoom lever toward [telephoto] and shoot.**

- The combined digital and optical zoom factor will display in the LCD monitor.
- The image may appear coarse depending upon the selected recording pixels. The zoom factor appears in blue.
- Press the zoom lever toward [wide] to zoom out.

Focus range (rough guide)

Optical zoom (White)

Digital zoom (Yellow/Blue)



Approximately 2 seconds later

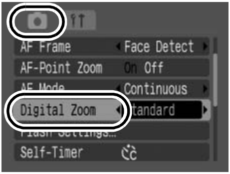
Combined optical and digital zoom



Shooting with the Digital Tele-Converter

The digital tele-converter feature uses digital zoom to achieve the effects of a tele-converter (a lens used in telephoto shooting).

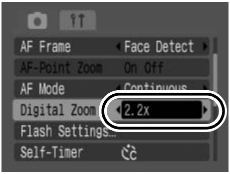
1 Select [Digital Zoom].



1. Press the **MENU** button.

2. In the 📷 menu, use the ▲ or ▼ button to select [Digital Zoom].

2 Make settings.



1. Use the ◀ or ▶ button to select [1.3x] or [2.2x].

2. Press the **MENU** button.

3 Adjust the angle of view with the zoom lever and shoot.

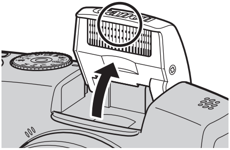


- T and the zoom factor appear on the LCD monitor.
- The image may appear coarse depending upon the selected recording pixels (the T icon and the zoom factor appear in blue).

Using the Flash

Available Shooting Modes p. 222

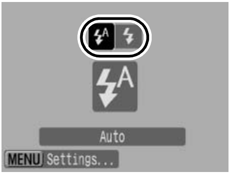
1 Raise the flash manually.



2 Press the button.

1. Use the ← or → button to change the flash mode.

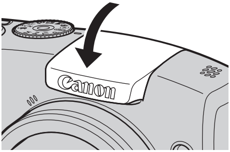
: [Auto]
: [On]



- You can configure detailed settings for the flash when you press the **MENU** button while this screen is displayed (p. 95).

3 When you are not using the flash, lower the flash until it closes.

- (flash off) appears in the LCD monitor.



You are recommended to shoot with the camera attached to a tripod or other device if the camera shake warning icon appears.

- When the flash recharging begins after shooting, the indicator blinks orange and the LCD monitor turns off. When recharging ends, the indicator turns off and the LCD monitor turns on. The time required for flash recharging will change depending on usage conditions and remaining battery power.
- A flashing red ⚡ in the LCD monitor indicates insufficient light level. In this case, raise the flash before shooting. However, when shooting with the **Tv**, **Av** or **M** mode there is no indication.

Shooting Close-ups (Macro)

Available Shooting Modes p. 222

Use this mode to shoot close-ups of flowers or small items. The image area at the minimum shooting distance from the end of the lens to the subject (1 cm) is 29 × 21 mm.

1 Press the button.

1. Use the ← or → button to select.

- A yellow bar appears below the zoom bar to indicate the range in which you cannot use Macro mode to shoot the subject. When the zoom bar reaches the yellow bar, the icon will gray out, and the image will be recorded at standard shooting distances. The zoom bar disappears after approx. 2 seconds.



Zoom range for Macro shooting

Max. wide angle

Max. telephoto

Out of zoom range for Macro shooting (yellow bar)



Focus range (rough guide)

To Cancel the Macro Mode:
Press the button and use the ← or → button to select (Normal).

Using the flash in macro mode may cause image edges to darken.

Using the Self-Timer

Available Shooting Modes » p. 222

You can set the time delay and the numbers of shots you wish to take in advance.

10 sec. Self-Timer	Shoots 10 seconds after you press the shutter button. • 2 seconds before the shutter releases, the self-timer lamp and sound speed up.
2 sec. Self-Timer	Shoots 2 seconds after you press the shutter button. • The self-timer sound beeps quickly when you press the shutter button and the shutter releases 2 seconds later.
Custom Timer	You can change the delay time (0 – 10, 15, 20, 30 sec.) and number of shots (1 – 10). • When a delay time of over 2 seconds is set for the [Delay] option, the self-timer sound beeps quickly 2 seconds before the shutter releases. If multiple shots have been specified for the [Shots] option, the sound will play for the first shot only.

1 Press the button.



1. Use the ▲ or ▼ button to change the self-timer mode.

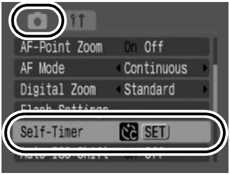
- Pressing the **MENU** button while this screen is displayed will allow you to set the delay and number of shots as when Custom Timer is selected (p. 69).

2 Shoot.

- When you press the shutter button fully, the self-timer lamp will blink.*
  - * When [Red-Eye Lamp] is set to [On] in [Flash Settings], the lamp will light 2 seconds before the flash fires (p. 95).

To Cancel the Self-Timer:
Follow procedure 1 to select .

Changing the Delay Time and Number of Shots ()



1 **Select [Self-Timer].**

1. Press the **MENU** button.

2. In the [camera] menu, use the ↑ or ↓ button to select [Self-timer].

3. Press the (FUNC./SET) button.



2 **Make settings.**

1. Use the ↑ or ↓ button to select [Delay] or [Shots] and the ← or → button to change the settings.

2. Press the (FUNC./SET) button.

3. Press the **MENU** button.

If the [Shots] option is set to 2 or more shots, the following occurs.

- The exposure and white balance are locked at the settings selected for the first shot.
- If the flash is used, the interval between shots lengthens.
- The interval between shots may lengthen when the built-in memory of the camera fills.
- Shooting will automatically cease if the memory card becomes full.

Changing the Recording Pixels (Still Images)

Available Shooting Modes » p. 222

1 Select the recording pixels.

1. Press the FUNC./SET button.
2. Use the ▲ or ▼ button to select L and the ◀ or ▶ button to change the recording pixels.
3. Press the FUNC./SET button.



Approximate Values for Recording Pixels

Recording Pixels				Purpose*
L Large	9M	3456 × 2592	High	Printing to about A3-size 297 × 420 mm (11.7 × 16.5 in.)
M1 Medium 1	6M	2816 × 2112	↑	
M2 Medium 2	4M	2272 × 1704		Printing to about A4-size 210 × 297 mm (8.3 × 11.7 in.) Printing to about Letter-size 216 × 279 mm (8.5 × 11 in.)
M3 Medium 3	2M	1600 × 1200		Printing postcard-size prints 148 × 100 mm (6 × 4 in.) Printing L-size prints 119 × 89 mm (4.7 × 3.5 in.)
S Small	0.3M	640 × 480	↓ Low	Sending images as e-mail attachments or shoot more images.
Date Stamp	2M	1600 × 1200	Printing date-stamped images (p. 22), in L-size or postcard-size (you can check the print area at a 3:2 aspect ratio as you shoot).	
W Widescreen	3456 × 1944		Printing on wide size paper (you can check the composition at a 16:9 aspect ratio. Areas that will not be recorded appear on the LCD monitor as a black border.)	

(shaded) : Approximate recording pixel numbers are shown. (M is short for megapixels.)

* Paper sizes vary according to region.

- See *Memory Cards and Estimated Capacities* (p. 203).
- See *Image Data Sizes (Estimated)* (p. 204).

Changing the Compression (Still Images)

Available Shooting Modes » p. 222

1 Select a compression setting.



1. Press the FUNC./SET button.
2. Use the ▲ or ▼ button to select the compression icon and the ◀ or ▶ button to change the option.
3. Press the FUNC./SET button.

Approximate Values for Compression Settings

Compression		Purpose
Superfine	High Quality	Shoot higher quality images.
Fine	↕	Shoot normal quality images.
Normal	Normal	Shoot more images.

- See *Memory Cards and Estimated Capacities* (p. 203).
- See *Image Data Sizes (Estimated)* (p. 204).

Setting the Image Stabilizer Function

Available Shooting Modes » p. 222

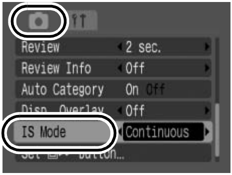
The lens-shift type image stabilizer function allows you to minimize the camera shake effect (blurred images) when you shoot distant subjects that have been magnified or when you shoot in dark conditions without a flash.

Options	Display on the LCD monitor	Summary
Off		–
Continuous		You can check the effect of the IS mode on image blur on the LCD monitor since the IS mode runs continually. This makes it easier to compose images and focus on subjects.
Shoot Only		Shoot Only IS mode is only activated when the shutter button is pressed. When set to [Continuous], some blurring may occur depending on the subjects. In Shoot Only mode, subjects can be taken without concern for any unnatural movement that may appear on the LCD monitor.
Panning		This option only stabilizes the effect of up and down camera motions on the image. This option is recommended for shooting objects moving horizontally.

1 Select [IS Mode].

1. Press the **MENU** button.

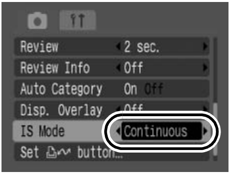
2. In the menu, use the ▲ or ▼ button to select [IS Mode].



2 Make settings.

1. Use the ← or → button to select the image stabilizer settings.

2. Press the **MENU** button.



- Camera shake may not be fully corrected when shooting with slow shutter speeds, such as with evening shots. Use the Auto ISO Shift (p. 75), or fix the camera using a tripod to shoot. When you shoot with the camera attached to a tripod, we recommend you set [IS Mode] to [Off].
- If camera shake is too strong, it may not be fully corrected.
- Hold the camera horizontally while [Panning] (stabilization does not work when the camera is held vertically).
- If you shoot a movie after setting [IS Mode] to [Shoot Only] or [Panning], the setting will change to [Continuous].

ISO Adjusting the ISO Speed

Available Shooting Modes » p. 222

Raise the ISO speed to use a fast shutter speed when you wish to reduce the effects of camera shake or avoid blurry subjects, or to turn the flash off when shooting in a dark area.

1 Adjust the ISO Speed.



1. Press the ISO button.

2. Use the ▲ or ▼ button to change the setting.

- When you select ISO AUTO (Auto) or ISO HI (High ISO Auto), the camera sets the optimal ISO speed for the light level when shooting. As the ISO speed will automatically be raised in dark places, shutter speed will increase, reducing camera shake and subject blurring.
- Select ISO AUTO to put priority on image quality.
- When you select ISO HI, the camera also detects motion and sets the optimum ISO speed. As the shutter speed becomes even faster*, camera shake and blurred photos caused by subject movement will be reduced even more than when shooting the same scene in AUTO.

* Noise may increase in the captured image compared to ISO AUTO.

- You can set the ISO speed to ISO 3200 (p. 81).
- The camera automatically applies noise reduction processing when you shoot at a high ISO speed.
- If the camera is set at ISO AUTO or ISO HI, the ISO speed automatically set by the camera will be displayed when pressing the shutter button halfway or in playback information.

Reducing Camera Shake When Shooting (Auto ISO Shift)

Available Shooting Modes » **p. 222**

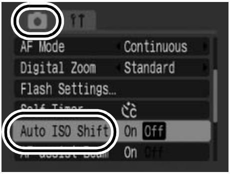
When the camera shake warning icon ( ) appears during shooting, this function allows you to increase ISO speed and to shoot at a shutter speed which minimizes the effects of camera shake by pressing the button.

- In ISO HI, ISO 800 or ISO 1600 mode, it will not function when the flash fires.
- Depending on shooting conditions, the camera shake warning icon ( ) may continue to display even if the ISO speed is increased.

1 Select [Auto ISO Shift].

1. Press the **MENU** button.

2. In the menu, use the ▲ or ▼ button to select [Auto ISO Shift].



2 Make settings.

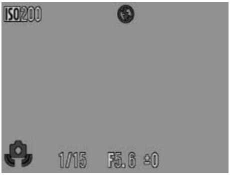
1. Use the ◀ or ▶ button to select [On].

2. Press the **MENU** button.



3 Press the shutter button halfway.

- When is displayed, the button lights in blue.



4 Press and hold the shutter button halfway, then press the ⎙∿ button.

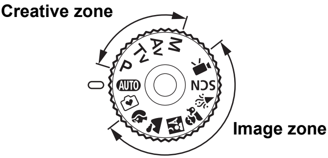


- The ISO speed after adjustment is displayed.
- While pressing the shutter button halfway, pressing the ⎙∿ button again will return the ISO speed to its original condition.
- When the AE lock (p. 110) is activated after the ISO speed is raised, the ISO speed will not return to its original setting even if you release the shutter button.

5 Press the shutter button all the way down (press fully).

Shooting Using the Mode Dial

Mode Dial



The camera automatically selects settings.

AUTO : Auto (p. 15)

: Easy (p. 17)

■ Image zone

When a shooting mode appropriate for the shooting conditions is selected, the camera automatically adjusts settings for optimal shooting (p. 79).

: Portrait

: Landscape

: Night Snapshot

: Kids&Pets

: Indoor

SCN : Special Scene (p. 79)

- : Night Scene
- : Sunset
- : Foliage
- : Snow
- : Beach
- : Fireworks
- : Aquarium
- : ISO 3200

: Movie (pp. 24, 89)

■ Creative Zone

You can freely select camera settings such as the shutter speed and aperture value to suit your shooting purposes.

P : Program AE (p. 82)

Tv : Setting the Shutter Speed (p. 83)

Av : Setting the Aperture (p. 85)

M : Manually Setting the Shutter Speed and Aperture (p. 87)

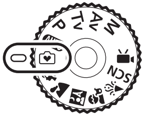
Easy Shooting (Easy Mode)

Shooting with the Easy mode is as simple as just pressing the shutter button. The camera selects the best settings automatically, so you can shoot any kind of scene without confusion.

- Shooting people
  When shooting people, the camera automatically detects faces to focus on, so you can be sure to catch those precious expressions.
- Shooting nearby subjects
  Even when shooting nearby subjects, you need not worry about being out of focus.
- Easy playback
  Set the mode dial to and press the button to view your images in Easy mode.
  The screen provides guidance for checking images without any fuss.

1 Select a shooting mode.

1. Set the mode dial to .



2 Shoot.

What You Can do in Easy Mode

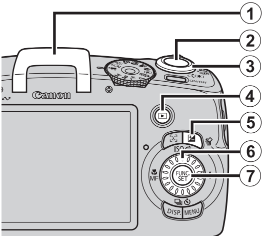
The following operations are available in Easy mode. Buttons other than these are disabled to avoid inadvertent operation.

■ Shooting (Shooting Mode)

- Use the flash (①)
- Zoom (③)
- Switch to view mode (④)

■ Viewing (Playback Mode)

- Erase images (⑤)
- View other images (⑥)
- Play back a slideshow (⑦)
- Switch to shooting mode (②)



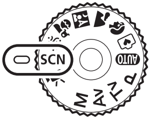
Shooting Modes for Specific Scenes

Available Shooting Modes » p. 222

When a shooting mode appropriate for the shooting conditions is selected, the camera automatically adjusts settings for optimal shooting.

, , , , or SCN (Special Scene)

1 **Set the mode dial to , , , , or SCN.**



SCN :

1. Use the control dial to select the scene mode.





Portrait

Produces a soft effect when photographing people.



Landscape

Optimized for shooting landscape scenes which contain both near and far subjects.



Night Snapshot

Allows you to take snapshots of people against twilight or night backgrounds by reducing the effects of camera shake when firmly holding the camera, even without using a tripod.



Kids&Pets

Allows you to capture subjects that move around, such as children and pets, without missing photo opportunities.



Indoor

Prevents camera shake and maintains the subject’s true color when shooting under fluorescent or tungsten lighting.



Night Scene

Allows you to capture people against the backdrop of an evening sky or night scene. The flash is directed at the person and the shutter speed is slow, so both the person and the background can be beautifully shot. Be sure to raise the flash before shooting.



Sunset

Allows you to shoot sunsets in vivid colors.



Foliage

Shoots trees and leaves - such as new growth, autumn leaves or blossoms - in vivid colors.



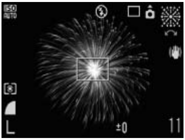
Snow

Shoots without a blue tinge and without making people appear dark against a snowy background.



Beach

Shoots without making people appear dark near water or sand where reflected sunlight is strong.



Fireworks

Captures fireworks in the sky sharply and at optimal exposure.



Aquarium

Selects the optimal ISO speed, white balance and color balance to capture fish and other items in an indoor aquarium.



ISO 3200

Selects the highest possible ISO speed (3200, twice the ISO 1600 speed) and increases the shutter speed to minimize blurring of moving subjects and from camera shake, even in low light conditions. Recording pixels are fixed at M3 (1600 × 1200).

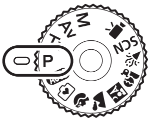
- The shutter speed is slow in or mode. Always use a tripod to avoid camera shake.
- In , , or mode, the ISO speed may increase and cause noise in the image depending on the scene being shot.
- With , image noise may be prominent.

P Program AE

Available Shooting Modes » p. 222

The camera automatically sets the shutter speed and aperture value to match the brightness of the scene. You can set the ISO speed, exposure compensation and white balance.

1 Set the mode dial to P.



2 Shoot.

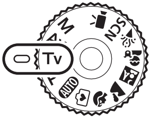
- When a correct exposure cannot be obtained, the shutter speed and aperture values are shown in red on the LCD monitor when the button is pressed halfway. Use the following shooting methods to obtain the correct exposure and make them show in white.
  - Use the flash (p. 65)
  - Adjust the ISO Speed (p. 74)
  - Use the Auto ISO Shift (p. 75)
  - Change the metering method (p. 114)
- You can change the combinations of shutter speeds and aperture values without altering the exposure (p. 111).

Tv Setting the Shutter Speed

Available Shooting Modes » p. 222

When you set the shutter speed, the camera automatically selects an aperture value to match the brightness.
Faster shutter speeds allow you to catch an instantaneous image of a moving subject, while slower speeds create a flowing effect and allow you to shoot without a flash in dark areas.

1 Set the mode dial to Tv.



2 Configure the shutter speed.

1. Use the control dial to change the shutter speed.



Shutter speed

3 Shoot.

- If the aperture value is shown in red, the image is underexposed (insufficient light) or overexposed (too much light). Use the control dial to adjust the shutter speed until the aperture value shows in white (Safety Shift (p. 84)).

The nature of CCDs is such that noise in the recorded image increases at slow shutter speeds. This camera, however, applies special processing to images shot at shutter speeds slower than 1.3 seconds to eliminate the noise, thereby producing high-quality images. (However, a certain amount of processing time may be required before the next image can be shot.)

- The shutter speed, zoom and aperture value have the following relationship.

	Aperture Value	Shutter Speed (seconds)
Maximum Wide Angle	f/2.8 – 3.5	15 – 1/1600
	f/4.0 – 5.0	15 – 1/2000
	f/5.6 – 8.0	15 – 1/2500
Maximum Telephoto	f/4.3 – 5.6	15 – 1/1600
	f/6.3 – 8.0	15 – 1/2000

- The fastest shutter speed for flash synchronization is 1/500 second. Therefore, even if the shutter speed is preset to a speed higher than 1/500 second, the camera automatically resets the shutter speed to 1/500 second during shooting.

Shutter Speed Display

- The following shutter speeds can be set. 1/160 indicates 1/160 second. Also, 0"3 indicates 0.3 second and 2" indicates 2 seconds.

15" 13" 10" 8" 6" 5" 4" 3"2 2"5 2" 1"6 1"3 1" 0"8 0"6 0"5 0"4 0"3 1/4 1/5 1/6 1/8 1/10 1/13 1/15 1/20 1/25 1/30 1/40 1/50 1/60 1/80 1/100 1/125 1/160 1/200 1/250 1/320 1/400 1/500 1/640 1/800 1/1000 1/1250 1/1600 1/2000 1/2500

- You can change the combinations of shutter speeds and aperture values without altering the exposure (p. 111).

Safety Shift

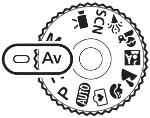
With Tv and Av modes, if [Safety Shift] is turned [On] (p. 53) in the [camera] menu, the shutter speed or aperture value is automatically adjusted for the correct exposure when it cannot be otherwise obtained. Safety Shift is disabled when the flash is enabled.

Av Setting the Aperture

Available Shooting Modes » p. 222

The aperture adjusts the amount of light entering through the lens. When you set the aperture value, the camera automatically selects a shutter speed to match the brightness.
Selecting a lower aperture value (opening the aperture) allows you to blur the background and create a beautiful portrait. A higher aperture value (closing the aperture) brings the entire range from foreground to background into focus. The larger the aperture value, the greater the range of the image brought into clear focus.

1 Set the mode dial to Av.



2 Configure the aperture setting.

1. Use the control dial to change the aperture value.



Aperture value

3 Shoot.

- If the shutter speed is shown in red, the image is underexposed (insufficient light) or overexposed (too much light). Use the control dial to adjust the aperture value until the shutter speed shows in white (Safety Shift (p. 84)).

Some aperture values may not be available with certain zoom positions (p. 84).

- The maximum shutter speed with synchronized flash is 1/500 seconds. Therefore, even if an aperture value is preset, the aperture value may automatically be reset to match the synchronized flash speed.

Aperture Value Display

- The larger the aperture value, the smaller the lens opening, allowing less light to enter the camera.

F2.8	F3.2	F3.5	F4.0	F4.3	F4.5	F5.0	F5.6	F6.3	F7.1	F8.0

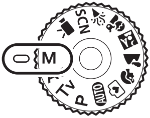
- You can change the combinations of aperture values and shutter speeds without altering the exposure (p. 111).

M Manually Setting the Shutter Speed and Aperture

Available Shooting Modes » p. 222

You can manually set the shutter speed and aperture to shoot images.

1 Set the mode dial to M.

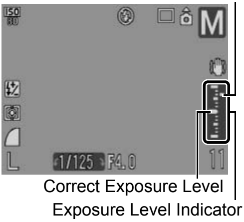


2 Configure the shutter speed and aperture setting.

1. Press the button to select the shutter speed or aperture value.

2. Use the control dial to change the shutter speed or aperture value.

3 Shoot.



- The current exposure level appears on the right side of the exposure level indicator, while the correct exposure level appears in the center on the left side of the indicator (if the difference is more than ±2 stops, the current exposure level appears in red on the LCD monitor).
- When you press the shutter button halfway, the difference between the Correct exposure* and the selected exposure appears on the LCD monitor. If the difference is more than ±2 stops, “–2” or “+2” appears in red.

  * The standard exposure is calculated by measuring the brightness according to the selected metering method.

- If the zoom is adjusted after these values are set, the aperture value or the shutter speed may change in accordance with the zoom position (p. 84).
- The brightness of the LCD monitor matches the selected shutter speed and aperture value. When you select a fast shutter speed or shoot a subject that appears dark, set the flash to ⚡ (Flash on) to make the LCD monitor display bright.

Movie Shooting

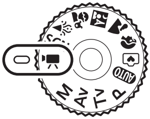
Available Shooting Modes » p. 222

The following movie modes are available.
The recording time will differ according to the memory card used (p. 204).

Standard	
	You can select the recording pixels and record until the memory card is full. The digital zoom can be used while shooting in this mode (p. 61).
	• Maximum Size: 4 GB*
Compact	
	Since there are few recording pixels and also the data size is small, this mode is convenient for sending movies as e-mail attachments or when the memory card capacity is low.
	• Maximum Clip Length: 3 minutes

* Even if the file size has not reached 4 GB, the recording is stopped when the recording time reaches one hour. Depending on memory card capacity and data write speed, recording may stop before the file size reaches 4 GB or the recording time reaches one hour.

1 Set the mode dial to .



2 Select a movie mode.

1. Use the control dial to select a movie mode.



3 Shoot.

- Pressing the shutter button halfway automatically sets the exposure, focus and white balance settings.
- Pressing the shutter button fully starts recording video and sound simultaneously.
- During shooting, the recording time and [●Rec] appear on the LCD monitor.
- Pressing the shutter button fully again stops recording. Recording will stop automatically under the following circumstances.
  - When the maximum recording time or maximum recording capacity is reached
  - When the built-in memory or memory card becomes full

- You are recommended to use a memory card that has been formatted in your camera to shoot movies (p. 156). The card supplied with the camera may be used without further formatting.
- Be careful of the following while recording.
  - Try not to touch the microphone (p. 40).
  - If you press a button, the sound of the button being pressed will also be recorded.
  - The camera will automatically adjust the exposure and white balance to suit the shooting conditions during recording. Please note, however, that the sounds made by the camera while automatically adjusting the exposure may also be recorded.
- The focus and optical zoom settings remain fixed for subsequent frames at the values selected for the first frame.

- Adjust the zoom setting before shooting. The combined digital and optical zoom factor will display on the LCD monitor. When the zoom factor displays in blue, the image will deteriorate.
- You can use digital zoom during movie shooting in [movie] mode only.
- Before recording, you can set the AE lock and exposure shift. This is effective on ski slopes and the beach when the contrast is too strong between the subject and background or where there are both light and dark areas in the scene and it is desirable to adjust the exposure.
  1. Press the ISO button.
     The exposure will lock (AE lock) and the exposure shift bar will appear in the LCD monitor.
  2. Use the control dial to adjust the exposure.
     Press the ISO button again to release the setting. Also, the setting will be canceled if you press the **MENU** button or change the white balance, My Colors or shooting mode settings.

Changing Movie Recording Pixels

You can change the recording pixels and frame rate when the movie mode is set to (Standard).*1

	Recording Pixels	Frame Rates
640	640 × 480	30 frames/sec.
640 LP *2	640 × 480	30 frames/sec. LP
320	320 × 240	30 frames/sec.

*1 The (Compact) is fixed to 160 (160 × 120 pixels, 15 frames/sec).

*2 When priority is on movie length rather than image quality, select 640 LP. You can shoot for twice as long in this mode compared to a file of the same size shot in the other modes.

1 Select the recording pixels.



1. Press the FUNC./SET button.

2. Use the ↑ or ↓ button to select 640 and the ← or → button to change the option.

3. Press the FUNC./SET button.

- See *Memory Cards and Estimated Capacities* (p. 204).
- See *Image Data Sizes (Estimated)* (p. 204).
- Frame rates indicate the number of frames recorded or played back each second. The higher the frame rate, the smoother the appearance of motion.

Various Shooting Methods

You can also use the control dial to select shooting modes or FUNC. menu options. See p. 43.

Continuous Shooting

Available Shooting Modes » p. 222

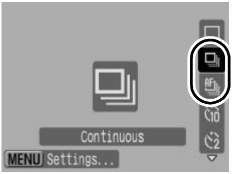
The camera shoots continuously while the shutter button is held down.

			Focus while shooting	Display on the LCD monitor
	Continuous Approx. 1.2 images/sec.	You can shoot continuously at a short shooting interval.	Fixed*	Recorded image
	Continuous Shooting AF Approx. 0.7 images/sec.	The camera will continue to record successive images and focus while the shutter button is held down (except in manual focus mode).	Auto focus	Subject right before shooting
	Continuous Shooting LV (Live View) Approx. 0.7 images/sec.	You can shoot continuously with a manually set focus position while confirming the subject.	Fixed*	Subject right before shooting

* The focus position of first image is fixed.

1 Press the button.

1. Use the ▲ or ▼ button to select , or .



2 Shoot.

- The camera will continue to record successive images while the shutter button is held down. Recording will cease when the shutter button is released.

To Cancel Continuous Shooting:
Follow procedure 1 to display ▣.

- In AF and manual focus modes, ▩ will not display (LV can be selected).
- AF frame will be set to [Center] in AF mode (p. 101).
- Rec. Review (p. 16) will not be displayed in AF and LV modes.

- The interval between shots lengthens when the built-in memory of the camera fills.
- If the flash is used, the interval between shots lengthens because the flash must charge.

Setting the Flash

Available Shooting Modes » p. 222

You can make detailed flash settings to fit the shooting conditions.

Flash Settings

Menu Item	Summary	Note
Flash Mode	When set to [Manual], you can control the flash output in the Tv or Av shooting modes.	–
Flash Exp. Comp	Flash exposure compensation can be adjusted in the range of –2 to +2 stops in 1/3-stop increments. You can combine the flash exposure compensation with the camera's exposure compensation function for balanced exposure of the background when shooting with a flash.	In Tv and Av shooting modes, set [Flash Mode] to [Auto] in advance.
Flash Output	The flash output can be controlled in three steps, up to FULL, when shooting.	In Tv and Av shooting modes, please set [Flash Mode] to [Manual] in advance.
Slow Synchro	The flash timing is adjusted to slow shutter speeds. This reduces the chance that only the background will appear dark when a night scene or an interior shot is taken.	Using Slow Synchro increases the chances for camera shake. Use of a tripod is recommended.
Red-Eye Corr.	Automatically searches for and corrects red eyes in the image when the flash fires.	–
Red-Eye Lamp	This feature reduces the effect of light reflecting back from the eyes and making them appear red.	The red-eye reduction lamp lights orange before the flash fires.
Safety FE	The camera automatically changes the shutter speed or aperture value when the flash fires to avoid overexposing and blowing out the highlights in the scene.	In Tv and Av shooting modes, set [Flash Mode] to [Auto] in advance.

About Red-Eye Correction

- When [Red-Eye Corr.] is set to [On], only the corrected image is recorded to the memory card.
- If the area around the eyes is red, for example from using red eye shadow, that area may also be corrected. If this happens, set [Red-Eye Corr.] to [Off].
- Red eyes may not be automatically detected or may not be fully corrected on some images. In either case, you can correct images with [Red-Eye Correction] in the menu (p. 137).

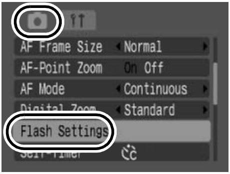
Displaying and setting [Flash Settings]

1 Select [Flash Settings].

1. Press the **MENU** button.

2. In the [camera] menu, use the ↑ or ↓ button to select [Flash Settings].

3. Press the FUNC./SET button.



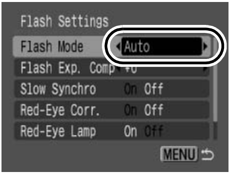
2 Make settings.

1. Use the ↑ or ↓ button to select the option.

2. Use the ← or → button to make the setting.

3. Press the **MENU** button.

Example in Av mode



3 Press the MENU button.

- [Flash Settings] can also be displayed by pressing the [flash] button, followed by the **MENU** button (p. 65).
- You can also set [Flash Exp. Comp] and [Flash Output] in the FUNC. menu (p. 52).

Checking the Focus and People's Expressions

Available Shooting Modes » p. 222

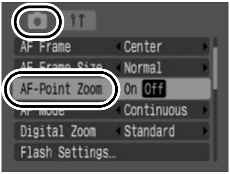
You can zoom the display of the AF frame to check focus when shooting or right after taking a shot.

Zooming the AF Frame and Shooting

The AF frame area can be zoomed to check focus while shooting. When you want to capture people's expressions, set [AF Frame] to [Face Detect]. When you want to check the focus while shooting in macro mode, set [AF Frame] to [Center].

1 Select [AF-Point Zoom].

1. Press the **MENU** button.
2. In the [camera] menu, use the ▲ or ▼ button to select [AF-Point Zoom].



2 Make settings.

1. Use the ◀ or ▶ button to select [On].
2. Press the **MENU** button.



3 Press the shutter button halfway.

- Pressing the shutter button halfway zooms a section of the display according to the following AF Frame mode settings (p. 101).

  [Face Detect] : The face detected as the main subject will appear zoomed.

  [Center] : The center of the image will appear zoomed in the LCD monitor.

4 Press the shutter button fully to shoot.

The AF frame cannot be zoomed under the following circumstances:
- When [AF Frame] is set to [Face Detect] and a face is not detected, or when the face is extremely large in relation to the overall composition.
- When the camera cannot focus.
- When the digital zoom is in use.
- When a TV is being used as the display.

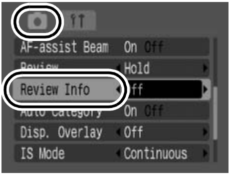
Checking Focus Right After Shooting (Focus Check)

Allows you to check the focus of an image taken. It is also easy to check people's expressions and look for closed eyes when shooting because a frame the size of the face displays when Face Select and Track (p. 104) or AF frame mode is set to [Face Detect] (p. 101). You are recommended to set [Review] to [Hold] in the [camera] menu in advance.

1 Select [Review Info].

1. Press the **MENU** button.

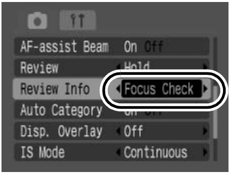
2. In the [camera] menu, use the ▲ or ▼ button to select [Review Info].



2 Make settings.

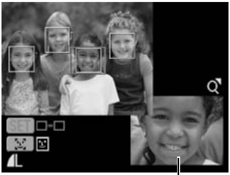
1. Use the ◀ or ▶ button to select [Focus Check].

2. Press the **MENU** button.



3 Shoot.

- The recorded image will be displayed.



Orange frame contents

- Frames are displayed as follows.

Frame color	Content
Orange	Displays the area of the image shown at the bottom right.
White	Indicates the AF frames or the positions of faces that were used for focusing when shooting.

- The orange frame can be shown at a different magnification, moved or switched to a different frame (p. 128).

To Cancel the Focus Check:
Press the shutter button halfway.

- When [Review Info] is set to any setting other than [Focus Check] and you are viewing immediately after shooting (Rec. Review, p. 16) a scene in which a face was detected, pressing the **FUNC./SET** button followed by the [face] button will display the Focus Check screen.
- Pressing the [erase] button while the image is displayed will erase the image (p. 19).
- You can check the focus even during playback mode (p. 126).

Switching between Focus Settings

Available Shooting Modes p. 222

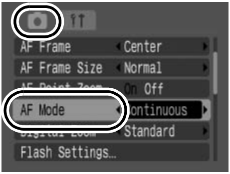
You can set the AF mode.

Continuous	The camera is continually focusing on whatever it is aimed at even when the shutter button is not pressed, allowing you to shoot without missing opportunities.
Single	The camera only focuses when the shutter button is pressed halfway, conserving battery power.

1 Select [AF Mode].

1. Press the **MENU** button.

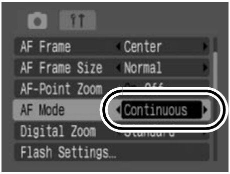
2. In the [camera] menu, use the ↑ or ↓ button to select [AF Mode].



2 Make settings.

1. Use the ← or → button to select [Continuous] or [Single].

1. Press the **MENU** button.



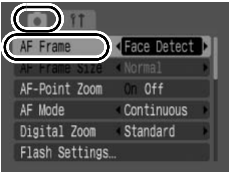
Selecting an AF Frame Mode

Available Shooting Modes p. 222

The AF frame indicates the area of the composition on which the camera focuses.

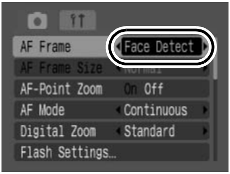
⌜ ⌝ ⌞ ⌟	Face Detect	The camera detects a face and sets the focus, exposure*1 and white balance*2. In addition, the camera meters the subject so that the face is correctly illuminated when the flash fires. If no face is detected, the camera shoots using [Center]. *1 Only in evaluative metering mode (p. 114) *2 Only in AWB (p. 115)
□	Center	The AF frame will be fixed to center. This is recommended when the target subject is at the center of the composition. You can change the AF frame size (p. 103).

1 Select [AF Frame].



1. Press the **MENU** button.
2. In the [camera] menu, use the ↑ or ↓ button to select [AF Frame].

2 Make settings.



1. Use the ← or → button to select an AF frame option.
2. Press the **MENU** button.

- See *Changing the AF Frame Size* (p. 103).

The AF frame appears as follows when the shutter button is pressed halfway.
- Green : In focus
- Yellow : Focusing difficulty ([Center] option)
- No AF frame : Focusing difficulty ([Face Detect] option)

Face Detect Feature

- When the camera detects faces, AF frames will be displayed on a maximum of three faces. At this point, the frame the camera judges to be the main subject appears in white while the others appear in gray. When the shutter button is pressed halfway and the camera focuses, up to 9 green AF frames may appear. You can also select the person to wish to focus on (p. 104).
- The camera will shoot using [Center] not the [Face Detect] function if a white frame fails to appear and only gray frames display, or if a face is not detected.
- The camera may mistakenly identify non-human subjects as a face.
- In certain cases, faces may not be detected.
  Examples:
  - If faces are at the edge of the screen, or appear extremely small, large, dark or bright, relative to the overall composition.
  - Faces turned to the side or at a diagonal, or faces with a portion hidden.

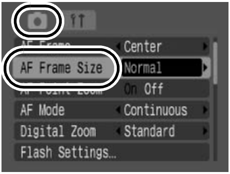
Changing the AF Frame Size ([Center] selected)

When the [AF Frame] is set to [Center], the AF frame can be resized to correspond to the subject. Select [Small] to constrict the focal frame to suit a small subject or to focus on a particular area of a subject.

1 Select [AF Frame Size].

1. Press the **MENU** button.

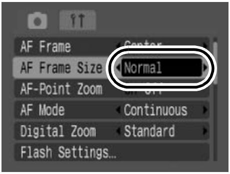
2. In the menu, use the ↑ or ↓ button to select [AF Frame Size].



2 Make settings.

1. Use the ← or → button to select [Normal] or [Small].

2. Press the **MENU** button.



The setting is configured to [Normal] when the digital zoom, digital tele-converter or manual focus mode (p. 108) is used.

Selecting a Subject to Focus On (Face Select and Track)

Available Shooting Modes » p. 222

Once the focus is fixed to a subject's face, the frame can be set to follow the subject within a certain range.

1 Select a face you wish to focus on.

1. Press the [face select] button.

- The camera enters face select mode, and the face frame ( ) of the main subject displays in white. Even if the subject moves, the frame will follow the subject within a certain range.
- The face frame will not display when a face is not detected.

Face Frame



2. Select the person you wish to focus on.

- When several faces have been detected, pressing the [face select] button will move the face frame to another subject. After moving the face frame selection through all detected faces, face select is deactivated.
- Holding down the [face select] button for more than 1 second will display face frames (up to 35) of all the detected faces (green: face of main subject, white: detected faces).

Face Frame



2 Press the shutter button halfway.

- The face frame (⌜ ⌝) of main subject will change into □.
- If the camera has difficulty focusing, the face frame will display in yellow.

3 Press the shutter button all the way to shoot.

In the following cases, the face select mode will be canceled.
- When turning the power back on
- When switching to another shooting mode
- When using the digital zoom or digital tele-converter
- When the **MENU** button is pressed to display the menu
- When a selected face cannot be tracked for several seconds

Shooting Hard-to-Focus Subjects (Focus Lock, AF Lock, Manual Focus, Safety MF)

Available Shooting Modes » p. 222

It may be difficult to focus on the following types of subjects.

- Subjects with extremely low contrast to the surroundings
- Scenes with a mixture of near and far subjects
- Subjects with extremely bright objects at the center of the composition
- Subjects that are moving quickly
- Subjects through glass

Shooting with the Focus Lock

1 **Aim the camera so that an object at the same focal distance as the main subject is centered in the viewfinder or in the AF frame displayed on the LCD monitor.**

2 **Keep the shutter button pressed halfway while you recompose the image.**

3 **Press the shutter button fully to shoot the image.**

Shooting with the AF Lock

1 **Aim the camera so that an object at the same focal distance as the main subject is centered in the AF frame.**

2 **Press and hold the shutter button halfway and press the MF button.**

- MF and MF Indicator will be displayed to confirm the distance from the subject.

3 **Re-aim the camera to compose the shot as desired and shoot.**

To Release the AF Lock:
Press the **MF** button and use the ← or → button to select (Normal).

- AF frames do not display in mode.
- When shooting with the focus lock or AF lock using the LCD monitor, setting [AF Frame] to [Center] (p. 101) makes shooting easier since the camera focuses using the center AF frame only.
- The AF lock is convenient because you can let go of the shutter button to compose the image. Moreover, the AF lock is still effective after the picture is taken, allowing you to capture a second image with the same focus.
- When you shoot a subject through glass, try to shoot as close to the glass as possible to reduce the chances of light reflecting back off the glass.

Shooting in Manual Focus Mode

The focus can be manually set.

1 Press the MF button.



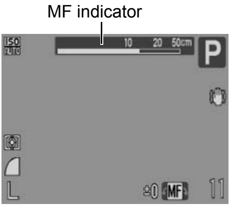
1. Use the ← or → button to select MF.

- The MF and the MF indicator are displayed.
- When the [camera] menu's [MF-Point Zoom] is set to [On], the portion of the image in the AF frame will appear magnified* (p. 53). Furthermore, when the AF mode (p. 100) is set to [Continuous], turning the control dial zooms the display in.

  * The image will not appear magnified in [movie] mode, when the digital zoom or digital tele-converter is activated or when a TV is used as the display.
- Depending on the shooting mode, pressing the [±] button will switch between the setting items that can be set with the control dial as follows:

[icons], P	Exposure compensation/MF
SCN	SCN mode/Exposure compensation/MF
[movie]	[movie] mode/MF
Tv	Shutter speed/Exposure compensation/MF
Av	Aperture value/Exposure compensation/MF
M	Shutter speed/Aperture value/MF

2 Use the control dial and adjust the focus.



- The MF indicator shows approximate figures. Use them as a shooting guideline only.

To Cancel the Manual Focus:

Press the **MF** button and use the ← or → button to select [icon] (Normal).

You cannot change the AF frame setting while focusing manually. Cancel the manual focus mode, then change the AF frame setting.

Using the Manual Focus in Combination with the Auto Focus (Safety MF)

First, manual focus is used to roughly focus, then from that focus position the camera automatically focuses more accurately.

1 Select [Safety MF].

1. Press the **MENU** button.

2. In the [camera] menu, use the ▲ or ▼ button to select [Safety MF].



2 Make settings.

1. Use the ◀ or ▶ button to select [On].

2. Press the **MENU** button.



3 First focus manually and then press the shutter button halfway.

- The focus will be fine-tuned at the optimal point of focus.

4 To shoot, press the shutter button all the way down (press fully).

Locking the Exposure Setting (AE Lock)

Available Shooting Modes » p. 222

You can set the exposure and focus separately. This is effective when the contrast is too strong between the subject and background or when a subject is backlit.

1 Confirm that the flash is lowered.

- is displayed.

2 Aim the camera at the subject on which you wish to lock the exposure.

3 Press the shutter button halfway and press the button.

- The exposure setting will lock and will display.

4 Re-aim the camera to compose the shot as desired and press the shutter button fully.

To Release the AE Lock:

Operate a button other than the control dial.

- In movie mode, AE lock can also be set/canceled (p. 91).
- You can use the FE lock when using the flash.

Changing the Shutter Speed and Aperture Value Combination

The automatically selected combinations of shutter speeds and aperture values can be freely changed without altering the exposure to shoot images (Program Shift).

1 **Aim the camera at the subject on which you wish to lock the exposure.**

2 **Press the shutter button halfway and press the ± button.**

- The exposure setting will lock, and ✱ will appear on the LCD monitor.



3 **Use the control dial to change shutter speed and aperture value combinations.**

4 **Recompose the image and shoot.**

- The setting will cancel after the shot is taken.

Locking the Flash Exposure Setting (FE Lock)

Available Shooting Modes p. 222

You can lock the flash exposure so that the exposure settings are correctly set regardless of the composition of your subject.

1 **Raise the flash.**

2 **In P mode, press the button and select (flash on).**

3 **Aim the camera at the subject on which you wish to lock the exposure.**

4 **Press the shutter button halfway and press the button.**

- The flash will pre-fire and will display.

5 **Re-aim the camera to compose the shot as desired and press the shutter button fully.**

To Release the FE Lock:
Operate a button other than the control dial.

The FE lock cannot be used when [Flash Mode] in the [Flash Settings] menu is set to [Manual].

Adjusting the Exposure Compensation

Available Shooting Modes » p. 222

Adjust the exposure compensation to a positive value to avoid making the subject too dark when it is backlit or shot against a bright background. Adjust the exposure compensation to a negative value to avoid making the subject too bright in night shots or when shot against a dark background.

1 Press the button to display the exposure compensation bar.

2 Configure the setting.

1. Use the control dial to adjust the exposure compensation.
2. Press the button.



Exposure compensation bar

- The exposure compensation bar and the compensation results will display in the LCD monitor.
- Depending on the shooting mode, pressing the button will switch between the setting items that can be set with the control dial as follows:

SCN	SCN mode/Exposure compensation
Tv	Shutter speed/Exposure compensation
Av	Aperture value/Exposure compensation

To Cancel the Exposure Compensation:

Follow step 2 to restore the compensation value to [0].

In movie mode, the exposure shift can be set/canceled (p. 91).

Switching between Metering Modes

Available Shooting Modes p. 222

	Evaluative	Appropriate for standard shooting conditions, including backlit scenes. The camera divides images into several zones for metering. It evaluates complex lighting conditions, such as the position of the subject, the brightness, the direct light, and the backlighting, and adjusts the settings to the correct exposure for the main subject.
	Center Weighted Avg.	Averages the light metered from the entire frame, but gives greater weight to the subject matter at the center.
	Spot	Adjusts the exposure according to the subject in the center of the frame (meters the area within the spot AE point at the center of the LCD monitor). Use this mode when there is a large divergence in brightness between the subject and surroundings.

1 Change the metering mode.

1. Press the FUNC./SET button.

2. Use the ↑ or ↓ button to select and the ← or → button to change the option.

3. Press the FUNC./SET button.



Adjusting the Tone (White Balance)

Available Shooting Modes » p. 222

Normally, the AWB (Auto) white balance setting selects an optimal white balance. When the AWB setting cannot produce natural looking colors, change the white balance using a setting appropriate for the light source.

AWB	Auto	Settings are automatically set by the camera.
	Day Light	For recording outdoors on a bright day.
	Cloudy	For recording under overcast, shady or twilight skies.
	Tungsten	For recording under tungsten and bulb-type 3-wavelength fluorescent lighting.
	Fluorescent	For recording under warm-white, cool-white or warm-white (3-wavelength) fluorescent lighting.
	Fluorescent H	For recording under daylight fluorescent, or daylight fluorescent-type 3-wavelength fluorescent lighting.
	Custom	For recording with the optimal white balance data memorized in the camera from a white-colored object, such as white paper or cloth.

1 Select a white balance setting.



1. Press the FUNC./SET button.
2. Use the ▲ or ▼ button to select AWB and the ◀ or ▶ button to change the option.
3. Press the FUNC./SET button.

The white balance setting cannot be adjusted when Se or BW is selected for My Colors.

Using the Custom White Balance

Take a custom white balance (Custom) reading for the following situations that are difficult for the AWB (Auto) setting to detect correctly.

- Shooting subjects of monotone color (such as sky, sea or forest)
- Shooting with a particular source of light (such as a mercury-vapor lamp)
- Shooting close-ups (Macro)

1 Select .

1. Press the FUNC./SET button.

2. Use the ↑ or ↓ button to select AWB and use the ← or → button to select .



2 Aim the camera at a piece of white paper or cloth and press the DISP. button.



- Ensure that the LCD monitor is completely filled with the white image. Please note, however, that the center frame will not display when the digital zoom is used or when T is displayed.

3 Press the FUNC./SET button.

- You are recommended to set the shooting mode to **P** and the exposure compensation setting to [±0] before setting a custom white balance. The correct white balance may not be obtained when the exposure setting is incorrect (image appears completely black or white).
- Shoot with the same settings as when reading the white balance data. If the settings differ, the optimal white balance may not be set. In particular, the following should not be changed.
  - ISO Speed
  - Flash:
    Setting the flash to [flash on] or [flash off] is recommended. If the flash fires when reading the white balance data with the flash set to [auto flash], make sure that you also use the flash when you shoot.
- The white balance data is retained even after the camera power is turned off.

Shooting Images with Altered Colors (My Colors)

Available Shooting Modes » p. 222

You can change the look of an image when it is shot.

	My Colors Off	Records normally with this setting.
	Vivid	Emphasizes the contrast and color saturation to record bold colors.
	Neutral	Tones down the contrast and color saturation to record neutral hues.
	Sepia	Records in sepia tones.
	B/W	Records in black and white.
	Custom Color	Use this option to adjust contrast, sharpness and saturation before shooting.

/ / / /

1 Select a My Colors setting.

1. Press the FUNC./SET button.
2. Use the ↑ or ↓ button to select and the ← or → button to change the option.
3. Press the FUNC./SET button.



(Setting the Custom Color Mode)

1 Select .

1. Press the FUNC./SET button.
2. Use the ↑ or ↓ button to select and choose with the ← or → button.



2 Adjust the setting.



Select an item Adjust

1. Press the **DISP.** button.

2. Use the ▲ or ▼ button to select [Contrast], [Sharpness] or [Saturation].

3. Use the ◀ or ▶ button to adjust the setting.

- The adjustment results show in the LCD monitor.
- If you press the **DISP.** button, you will return to the screen where you can select a My Colors mode.

4. Press the FUNC./SET button.

- Return to the shooting screen to shoot.

Setting the Display Overlays

Available Shooting Modes » **p. 222**

You can display vertical and horizontal grid lines, a 3:2 print area guide, or both on the LCD monitor while shooting to help check the position of your subject.

Off	–
Grid Lines	Displays grid lines to divide the screen into 9 parts. Helps confirm the vertical and horizontal positioning of the subject.
3:2 Guide	Helps confirm the print area for L-size or postcard size in 3:2 aspect ratio*. Areas outside the printable area are grayed out. * Images are still recorded at the standard aspect ratio of 4:3.
Both	Displays both the grid lines and the 3:2 guide simultaneously.

1 Select [Disp. Overlay].

1. Press the **MENU** button.

2. In the (camera) menu, use the ↑ or ↓ button to select [Disp. Overlay].



2 Make settings.

1. Use the ← or → button to select the option.

2. Press the **MENU** button.



- Only grid lines can be configured for the (stitch assist) or W mode.
- The grid lines and 3:2 guide will not be recorded in the image.

Categorizing Images Automatically (Auto Category)

Available Shooting Modes p. 222

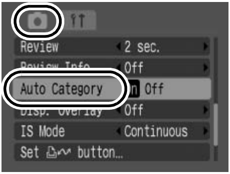
If you set Auto Category to [On], images are automatically sorted into preset categories as they are recorded.

	People	For images shot in , or mode, or images with faces detected when in face select mode or [AF Frame] is set to [Face Detect].
	Scenery	For images shot in , , or mode.
	Events	For images shot in , , , or mode.

1 Select [Auto Category].

1. Press the **MENU** button.

2. In the menu, use the ▲ or ▼ button to select [Auto Category].



2 Make settings.

1. Use the ◀ or ▶ button to select [On] or [Off].

2. Press the **MENU** button.



Movies are not automatically categorized, but they can be categorized using the My Category function (p. 131).

Registering Settings to the Button

Available Shooting Modes p. 222

You can register a function that you often use when shooting with the button.

Menu Item	Page
Not Assigned	–
White Balance	p. 115
Custom White Balance	p. 116
Red-Eye Corr.	p. 95
Digital Tele-converter	p. 64
DISP. Overlay	p. 120
Display Off	p. 123

1 Select [Set button].

1. Press the **MENU** button.

2. In the menu, use the ↑ or ↓ button to select [Set button].

3. Press the FUNC./SET button.



2 Make settings.

1. Use the ↑, ↓, ← or → button to select the function you wish to register.

2. Press the FUNC./SET button.

3. Press the **MENU** button.



- If ⃠ displays to the icon's lower right, you can register the function, but you cannot use it with some shooting modes or settings even if you press the button.

To Cancel the Shortcut Button:

Select in Step 2.

Using the 🖨️↝ Button

1 **Press the 🖨️↝ button.**

- 👁, T, # : Each time that the 🖨️↝ button is pressed, the settings of the registered functions are switched.
- WB : The corresponding setup screen is displayed.
- ⬛ : Each press of the 🖨️↝ button records the white balance data. Ensure that the white paper or cloth is positioned so it appears at the center of the LCD monitor and then press the 🖨️↝ button. After using this function once, the white balance setting changes to ⬛.
- zZ : Pressing the 🖨️↝ button turns off the LCD monitor. The next time a button is pressed, the LCD monitor will turn back on.

Playback/Erasing

In playback mode, you can select images with the control dial. Turning it counterclockwise selects the previous image while turning it clockwise selects the next image. Please also see *Viewing Still Images* (p. 18).

Viewing Magnified Images

1 Press the zoom lever toward .

- A magnified portion of the image will display.
- Images can be magnified up to a factor of approximately 10x.



Approximate location of the displayed area

2 Use the ↑, ↓, ← or → button to move around the image.

- If you use the control dial while in the magnified display mode, the camera will switch to the previous or next image at the same level of magnification.
- You can change the magnification level with the zoom lever.

To Cancel the Magnified Display:

Press the zoom lever toward . (You can also cancel it immediately by pressing the **MENU** button.)

 and index playback images cannot be magnified.

[index icon] Viewing Images in Sets of Nine (Index Playback)

[playback mode icon]

1 Press the zoom lever toward [index icon].

- Up to nine images can be viewed at once in index playback.
- Use the ↑, ↓, ← or → button or control dial to change the image selection.

Selected Image



Movie

To Return to Single Image Playback:
Press the zoom lever toward [magnify icon].

Switching between Sets of Nine Images

The jump bar will display if you press the zoom lever toward [index icon] while in index playback and you can switch the display between sets of nine images.

- Use the ← or → button or control dial to move to the previous or next set of 9 images.
- Hold the **FUNC./SET** button down and press the ← or → button to jump to the first or last set.



Jump Bar

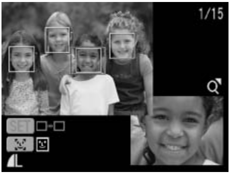
To Return to Single Image Playback:
Press the zoom lever toward [magnify icon].

Checking the Focus and People's Expressions (Focus Check Display)

Focus Check display allows you to check the focus of images taken. Moreover, as you can change the display size and switch images, you can easily check facial expressions and whether a subject's eyes are closed.

Displaying the Focus Check

1 Press the DISP. button several times until the Focus Check displays.



- Frames are displayed on the image as follows.

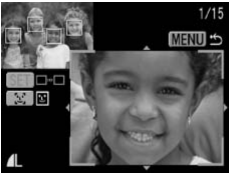
Frame color	Content
Orange	Displays the range of the image displayed at bottom right.
White	The frame is displayed at a position of face or AF frame at which the image is in focus when shooting.
Gray	Displays frames in positions where faces were detected during playback.

- The orange frames allow you to change the display magnification, move the display position, and switch between display frames (p. 127).

When you are not using Focus Check display and playing back images with detected faces, the display magnification or display position can be changed by pressing the [face] button (only faces are detected in the image).

Changing the Display Magnification and display Position

2 **Press the zoom lever toward 🔍.**



- Bottom right of the screen will be displayed prominently and the display size and display position can be changed.

3 **Change the setting.**

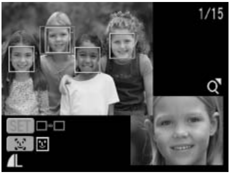


- You can change the display size by pressing the zoom lever.
- You can change the display position by using the ▲, ▼, ◀ or ▶ button.
- When only one face is detected, pressing the [face] button will return the orange frame to its original position (when you change the display magnification, the orange frame will adjust to the size of the face).
- When one AF frame or none were in focus, pressing the **FUNC./ SET** button will return the orange frame to its original position.

To Cancel Changing the Display Size and Display Position:
Press the **MENU** button.

Switching Frames

2 **Press the [face] button.**



- When multiple faces are detected, the position of the orange colored frame will change each time the [face] button is pressed (when you change the display size, the orange frame will adjust to the size of the face).
- When multiple in-focus frames are displayed, the position of the orange colored frame will change each time the **FUNC./SET** button is pressed.

Jumping to Images

When you have many images recorded onto a memory card, it is handy to use the search keys below to jump over images to find the object of your search.

	Jump Shot Date	Jumps to the first image of each shooting date.
	Jump to My Category	Jumps to the first image of each folder sorted by the Auto Category (p. 121) or My Category (p. 131) functions.
	Jump to Folder	Displays the first image in each folder.
	Jump to Movie	Jumps to a movie.
	Jump 10 images	Jumps over 10 images at a time.
	Jump 100 images	Jumps over 100 images at a time.

1 **In single image playback mode, press the button.**

- The camera will switch to jump search mode.

2 **Use the ▲ or ▼ button to select a search key.**

- You can show/hide image information using the **DISP.** button.
- When an image is not categorized, My Category will not display.



3 Display the Images.

1. Press the ← or → button.

- Pressing the **MENU** button cancels the setting.
- Press the **FUNC./SET** button to display the movie control panel (p. 133) when the is selected .

Number of images matching search key



Location of image currently being displayed

To Return to Single Image Playback:
Press the **MENU** button.

Organizing Images by Category (My Category)

You can organize images into prepared categories. Once organized into categories, you can jump to and display the image you want (p. 129). You can also organize one image into multiple categories. Category information recorded with the [Auto Category] function (p. 121) can also be edited.

	People		My Category 1 – 3
	Scenery		To Do
	Events		

1 Select [My Category].



1. Press the **MENU** button.
2. In the [▶] menu, use the ▲ or ▼ button to select [My Category icon].
3. Press the (FUNC. SET) button.

2 Make settings.



1. Use the ◀ or ▶ button to select an image to classify.
2. Use the ▲ or ▼ button to select a category.
3. Press the (FUNC. SET) button.

- You can cancel the classification by pressing the **FUNC./SET** button again.
- Press the **MENU** button to complete the setting.
- You can also set this in index playback.

Viewing Movies

1 **Display a movie.**

1. Use the ← or → button to select a movie.

2. Press the FUNC./SET button.



- Images with a SET movie icon are movies.

2 **Play the movie.**

1. Use the ← or → button to select ▶.

2. Press the FUNC./SET button.

Movie Control Panel



Playback Progress Bar

Time movie was shot

Volume Level (Adjust it with the ↑ or ↓ button)

- The movie will pause if you press the **FUNC./SET** button during playback. It will resume when you press the button again.
- When playback ends, the movie stops at the last frame displayed. Press the **FUNC./SET** button to display the movie control panel.
- You can switch between showing/hiding the playback progress bar by pressing the **DISP.** button while playing a movie.
- If playback was halted partway through in the prior viewing session, playback will resume from the last frame displayed.

Operating the Movie Control Panel

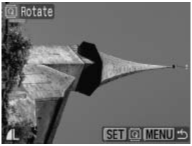
⮌	Exit	Ends playback and returns to single image playback.
🖶	Print	An icon will display when a printer is connected. See the *Direct Print User Guide* for details.
▶	Play	Play.
▮▶	Slow Motion	You can use the ◆ button to slow down or the ◆ button to speed up playback.
▮◀	First Frame	Displays the first frame.
◀▮	Previous Frame	Rewinds if the **FUNC./SET** button is held down.
▮▶	Next Frame	Fast Forwards if the **FUNC./SET** button is held down.
▶▮	Last Frame	Displays the last frame.

Movies cannot be played in the index playback mode.

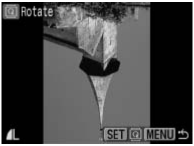
- Use the television's controls to adjust the volume when playing a movie on a TV set (p. 163).
- The sound cannot be played in slow motion playback.

Rotating Images in the Display

Images can be rotated clockwise 90° or 270° in the display.



Original

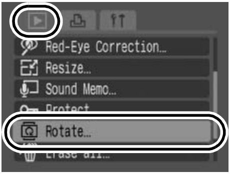


90°



270°

1 Select [Rotate].



1. Press the **MENU** button.

2. In the ▶ menu, use the ▲ or ▼ button to select the Rotate icon.

3. Press the FUNC./SET button.

2 Rotate the image.

1. Use the ◀ or ▶ button to select an image to rotate.

2. Press the FUNC./SET button.

- Cycle through the 90°/270°/original orientations with each press of the **FUNC./SET** button.
- This also can be set in the index playback mode.

When images are downloaded to a computer, the orientation of images rotated by the camera will depend upon the software used to download the images.

The orientation is recorded in the image.

Playback with Transition Effects

You can select the transition effect displayed when switching between images.

	No transition effect.
	The displayed image darkens and the next image gradually brightens until it is displayed.
	Press the ← button to have the previous image display from the left and the → button to have the next image display from the right.

1 Select [Transition].

1. Press the **MENU** button.

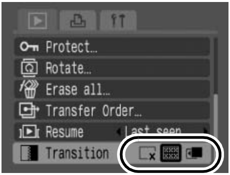
2. In the menu, use the ↑ or ↓ button to select .



2 Make settings.

1. Use the ← or → button to select a transition effect.

2. Press the **MENU** button.



Automated Playback (Slide Shows)

Use this feature to automatically play back all of the images in the memory card. The LCD monitor displays each image for approximately 3 seconds.

	No transition effect.
	The new image gradually brightens as it moves upward from the bottom.
	The previous image moves to the left and the next image display from the right.

1 Select [Slide Show].

1. Press the **MENU** button.

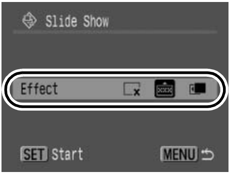
2. In the menu, use the ▲ or ▼ button to select.

3. Press the FUNC./SET button.



2 Select an effect.

1. Use the ◀ or ▶ button to select an effect and make it active.



3 Play.

1. Press the FUNC./SET button.

- The following functions are available during slide shows.
  - Pausing/resuming the slide show: press the **FUNC./SET** button.
  - Fast forwarding/rewinding the slide show: press the ◀ or ▶ button (continue to hold the button to switch between images more rapidly).
  - Stopping the slide show: press the **MENU** button.

In single image playback mode, you can start a slide show from the current image displayed by holding the **FUNC./SET** button while you press the button.

Red-Eye Correction Function

You can correct red eyes in recorded images.

Red eyes may not be automatically detected in some images or the results may not turn out as you intended. We recommend that you use [New File] to save corrected images.

Examples:

- Faces near the screen edges or faces that appear extremely small, large, dark or bright in relation to the overall image.
- Faces turned to the side or at a diagonal, or faces with a portion hidden.

1 Select [Red-Eye Correction].

1. Press the **MENU** button.

2. In the menu, use the ▲ or ▼ button to select .

3. Press the FUNC./SET button.



2 Select an image.

1. Use the ← or → button to select the image you wish to correct red eyes.
2. Press the FUNC./SET button.



- A frame will automatically display where red-eye is detected.
- If red-eye is not automatically detected, select [Add Frame] with the ↑, ↓, ← or → button and press **FUNC./SET** button (p. 140).
- To cancel the correction frame, select [Remove Frame] and press the **FUNC./SET** button (p. 141).

3 Correct the image.

1. Use the ↑, ↓, ← or → button to select [Start].
2. Press the FUNC./SET button.



4 Save the image.

1. Use the ↑, ↓, ← or → button to select [New File] or [Overwrite].
2. Press the FUNC./SET button.



- [New File]: Saved as new file with a new name. The uncorrected image is stored. The new image is stored as the last file.
- [Overwrite]: Saved with the same file name as the uncorrected image. The uncorrected image is erased.
- When [New File] is selected, proceed to Step 5.
- If you wish to continue correcting another image, repeat operations from Step 2.

5 Display the saved image.

1. Press the **MENU** button.
2. Use the ← or → button to select [Yes].
3. Press the FUNC./SET button.



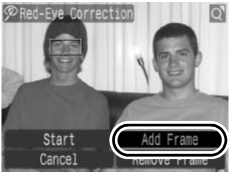
- Selecting [No] returns to the Play menu.

- Red-eye correction cannot be performed on movies.
- Overwriting cannot be performed on protected images.
- When there is not enough space left on the memory card, red-eye correction cannot be performed.

- Although you can apply red-eye correction any number of times to an image, the image quality will gradually deteriorate with each application.
- Since the correction frame will not appear automatically on images that have already been corrected once with the Red-Eye Correction function, use the [Add Frame] option to correct them.

Add Correction Frame

1 Select [Add Frame].



1. Use the ▲, ▼, ◀ or ▶ button to select [Add Frame].

2. Press the FUNC./SET button.

- A green frame will display.

2 Adjust the position of the correction frame.



1. Use the ▲, ▼, ◀ or ▶ button to move the frame.

- Size of the frame can be changed with the zoom lever.

3 Add additional correction frames.

1. Press the FUNC./SET button.

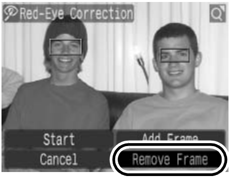
- A correction frame is added and the frame color changes to white.
- If you wish to add additional frames, adjust the position and press the **FUNC./SET** button.
- Up to 35 additional frames can be added.
- To end the adding of correction frames, press the **MENU** button.

To correctly perform red-eye correction, take note of the following (refer to the image in Step 2):
- Adjust the correction frame size so that it only surrounds the red-eye portion to be corrected.
- When there are several subjects with red-eye, be sure to add one correction frame per subject.

Removing Correction Frames

1 Select [Remove Frame].

1. Use the ▲, ▼, ◀ or ▶ button to select [Remove Frame].
2. Press the FUNC./SET button.



2 Select a frame you wish to remove.

1. Use the ◀ or ▶ button to select a frame to remove.

- The selected frame will appear in green.



3 Delete the frame.

1. Press the FUNC./SET button.

- The selected frame will disappear.
- To continue deleting frames, repeat operations from Step 2.
- When you finish deleting frames, press the **MENU** button.

Resizing Images

You can resave images that were recorded at high recording pixel settings at lower settings.

M3	1600 × 1200 pixels
S	640 × 480 pixels
XS	320 × 240 pixels

1 Select [Resize].

1. Press the **MENU** button.
2. In the [Playback] menu, use the ▲ or ▼ button to select [Resize].
3. Press the FUNC./SET button.



2 Select an image.

1. Use the ◀ or ▶ button to select an image to resize.
2. Press the FUNC./SET button.

- You cannot select the images that cannot be resized by pressing the **FUNC./SET** button.



3 Select a resolution.

1. Use the ◀ or ▶ button to select a resolution.
2. Press the FUNC./SET button.

- If a resolution cannot be selected due to a lack of free space on the memory card, ⃠ will display.



4 Save the image.

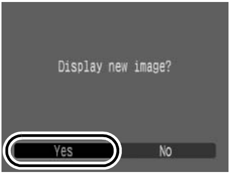
1. Use the ← or → button to select [OK].
2. Press the FUNC./SET button.



- The resized image will be saved in a new file. The original image will remain.
- If you wish to continue resizing of another image, repeat operations from Step 2.

5 Display the saved image.

1. Press the **MENU** button.
2. Use the ← or → button to select [Yes].
3. Press the FUNC./SET button.



- Selecting [No] returns to the Play menu.

Movies and images shot in [movie] or [W] mode cannot be resized.

Attaching Sound Memos to Images

In playback mode, you can attach sound memos (up to 1 min.) to an image. The sound data is saved in the WAVE format.

1 Select [Sound Memo].

1. Press the **MENU** button.

2. In the ▶ menu, use the ▲ or ▼ button to select the sound memo icon.

3. Press the FUNC./SET button.



2 Select an image.

1. Use the ◀ or ▶ button to select an image to which you wish to attach a sound memo.

2. Press the FUNC./SET button.

- The sound memo control panel will display.



3 Record the memo.

1. Use the ◀ or ▶ button to select the record (●) icon.

2. Press the FUNC./SET button.

- The elapsed time and the remaining time display.
- Pressing the **FUNC./SET** button pauses the recording. Pressing it again resumes recording.
- Up to 1 minute of recordings can be added to any one image.
- Press the **MENU** button several times to complete the setting.



Sound Memo Panel

Elapsed Time/
Remaining Time

Volume
(Adjust it with the ▲ or ▼ button)

Sound Memo Panel

Use the ← or → button to select an option and press **FUNC./SET** button.

	Exit	Returns to the playback screen.
	Record	Starts recording.
	Pause	Pauses recording or playback.
	Play	Begins playback.
	Erase	Erases sound memos. (Select [Erase] and in the confirmation screen press the **FUNC./SET** button.)

- You cannot attach sound memos to .
- Sound memos for protected images cannot be erased.

Protecting Images

You can protect important images and movies from accidental erasure.

1 Select [Protect].



1. Press the **MENU** button.

2. In the ▶ menu, use the ▲ or ▼ button to select the protect icon.

3. Press the FUNC./SET button.

2 Protect an image.



Protection Icon

1. Use the ◀ or ▶ button to select an image to protect.

2. Press the FUNC./SET button.

- The protection icon appears on the lower left of image.
- Pressing the **FUNC./SET** button again cancels the setting.
- If you wish to continue protecting of another image, repeat operations.
- You can also protect images in the index playback mode.
- Press the **MENU** button to complete the setting.

Erasing All Images

You can erase images from a memory card.

- Note that erased images cannot be recovered. Exercise adequate caution before erasing an image.
- Protected images cannot be erased with this function.

1 Select [Erase all].

1. Press the **MENU** button.
2. In the [▶] menu, use the ▲ or ▼ button to select [Erase all icon].
3. Press the (FUNC./SET) button.



2 Erase the images.

1. Use the ◀ or ▶ button to select [OK].
2. Press the (FUNC./SET) button.

- To exit instead of erasing, select [Cancel].



Please format the memory card when you want to erase not only image data but also all the data contained on the memory card (p. 156).

Print Settings/Transfer Settings

You can also use the control dial to select images and perform various operations. See p. 43.

Setting the DPOF Print Settings

You can select images on a memory card for printing and specify the number of print copies in advance using the camera. The settings used on the camera comply with the Digital Print Order Format (DPOF) standards. This is extremely convenient for printing on a direct print compatible printer, or for sending the images to a photo developing service that supports DPOF.

- The specified print settings are also applied to the Print List (p. 21).
- The output of some printers or photo developing services may not reflect the specified print settings.
- Print settings cannot be set for movies.
- The ⚠ icon may display for a memory card with print settings set by a different DPOF-compliant camera. These settings will be overwritten by those set by your camera.

Setting the Print Style

After setting the print style, select the images for printing. The following settings can be selected.

* Default setting

Print Type	Standard*	Prints one image per page.
	Index	Prints the selected images together at a reduced size in an index format.
	Both	Prints the images in both the standard and index formats.
Date (On/Off*)		Adds the date to the print.
File No. (On/Off*)		Adds the file number to the print.
Clear DPOF data (On*/Off)		Clears all print settings after the images print.

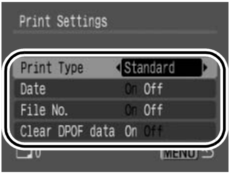
1 Select [Print Settings].

1. Press the ▶ button.
2. Press the **MENU** button.
3. Use the ◀ or ▶ button to select the 🖨 menu.
4. Use the ▲ or ▼ button to select [Print Settings].
5. Press the FUNC./SET button.



2 Make settings.

1. Use the ▲ or ▼ button to select an option.
2. Use the ◀ or ▶ button to specify the settings.
3. Press the **MENU** button.



- The Date and File No. settings change according to the Print Type as follows.
  - [Index]:
    [Date] and [File No.] cannot be set to [On] at the same time.
  - [Standard] or [Both]:
    [Date] and [File No.] can be set to [On] at the same time, however, the printable information may vary between printers.
- Images dated using (2M 1600 × 1200) (p. 22) are always printed with the date, regardless of the [Date] setting. As a result, some printers may print the date twice on these images if [Date] is also set to [On].
- Dates print in the style specified in [Date/Time] in the menu (p. 57).

Single Images

When [Print Type] (p. 148) is set to [Standard] or [Both], the number of copies can be set.

1 Select [Select Images & Qty.].



1. Press the ▶ button.
2. Press the **MENU** button.
3. Use the ← or → button to select the 凸 menu.
4. Use the ↑ or ↓ button to select [Select Images & Qty.].
5. Press the FUNC./SET button.

2 Select the images.

- Selection methods differ for the Print Type settings (p. 148).

Standard ( )/Both ( ):

Number of Print Copies



1. Use the ← or → button to select the images.
2. Press the FUNC./SET button.
3. Use the ↑ or ↓ button to select the number of print copies (up to 99).
4. Press the **MENU** button several times.

Index ( ):

Index Print Selection



1. Use the ← or → button to select the images.
2. Select and deselect with the FUNC./SET button.
3. Press the **MENU** button several times.

- You can also select images in the index playback mode.

All the Images on a Memory Card

One copy of every image will be set to print.

1 Select [Select All Images].

1. Press the **MENU** button.

2. Use the ← or → button to select the 🖶 menu.

3. Use the ↑ or ↓ button to select [Select All Images].

4. Press the FUNC./SET button.



2 Select [OK].

1. Use the ← or → button to select [OK].

2. Press the FUNC./SET button.

3. Press the **MENU** button.



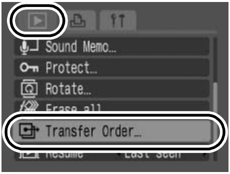
- Images are printed in order according to the file number.
- A maximum of 998 images can be selected.
- When the camera is connected to a printer, the Print/Share button will light blue. At this time, press the Print/Share button, confirm that [Print] is selected, and when the **FUNC./SET** button is pressed, printing will begin.
- Selecting [Clear All Selections] in Step 1 cancels all print settings.

Setting the DPOF Transfer Settings

You can use the camera to specify settings for images before downloading to a computer. Refer to the *Software Starter Guide* for instructions on how to transfer images to your computer. The settings used on the camera comply with the DPOF standards.

The ⚠ icon may display for a memory card with transfer settings set by a different DPOF-compliant camera. These settings will be overwritten by those set by your camera.

1 Select [Transfer Order].



1. Press the ▶ button.

2. Press the **MENU** button.

3. In the ▶ menu, use the ▲ or ▼ button to select the transfer order icon.

4. Press the FUNC./SET button.

2 Select an order method.



1. Use the ◀ or ▶ button to select an order method.

Order : Select single images.
Mark all : Select all the images on a memory card.

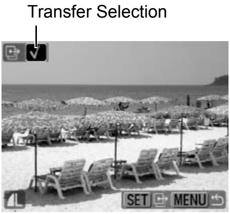
2. Press the FUNC./SET button.

- Selecting [Reset] cancels all transfer order settings.

Single Images

3 Select an image to transfer.

1. Use the ◆ or ◆ button to select an image to transfer.
2. Press the (FUNC. SET) button.
   - Pressing the **FUNC./SET** button again deselects the setting.
   - You can also select images in the index playback mode.
3. Press the **MENU** button several times.



Mark all

3 Execute the transferring images.

1. Use the ◆ or ◆ button to select [OK].
2. Press the (FUNC. SET) button.
3. Press the **MENU** button several times.



- Images are transferred in order according to the file number.
- A maximum of 998 images can be selected.

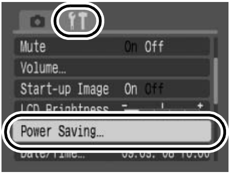
Configuring the Camera

Power Saving Function

This camera is equipped with a power saving function, which can automatically turn off the power or LCD monitor.

Auto Power Down	When set to [On], the power will shut off in the following circumstances. Press the power button again to restore power. Shooting mode: Approximately 3 minutes after the last control is accessed on the camera. Playback mode or when connected to a printer: Approximately 5 minutes after the last control is accessed on the camera.
Display Off	In shooting mode, the LCD monitor automatically turns off after the selected time if no control is accessed, regardless of the [Auto Power Down] setting. Press any button other than the power button or change the camera orientation to turn the LCD monitor back on.

1 **Select [Power Saving].**



1. Press the **MENU** button.
2. Use the ← or → button to select the menu.
3. Use the ↑ or ↓ button to select [Power Saving].
4. Press the FUNC. SET button.

2 **Make settings.**



1. Use the ↑ or ↓ button to select an option.
2. se the ← or → button to make settings.
3. Press the **MENU** button.

3 Press the MENU button.

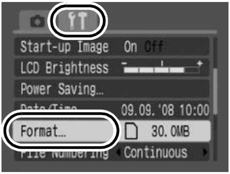
The power saving function will not activate during a slide show or while the camera is connected to a computer.

Formatting Memory Cards

You should always format a new memory card or one from which you wish to erase all images and other data.

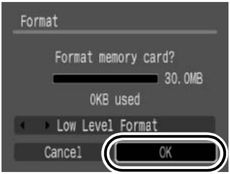
Please note that formatting (initializing) a memory card erases all data, including protected images and other file types.

1 Select [Format].



1. Press the **MENU** button.
2. Use the ← or → button to select the .
3. Use the ↑ or ↓ button to select [Format].
4. Press the FUNC./SET button.

2 Make settings.



1. Use the ← or → button to select [OK].
2. Press the FUNC./SET button.

- To perform a low level format, use the ↑ button to select [Low Level Format] and the ← or → button to add a check mark.
- You can stop formatting a memory card when [Low Level Format] is selected by pressing the **FUNC./SET** button. You can still use a memory card without problem when formatting is halted, but its data will be erased.

Low Level Format
We recommend you select [Low Level Format] when you think that the recording/reading speed of a memory card has dropped. A low level format may require 2 to 3 minutes with some memory cards.

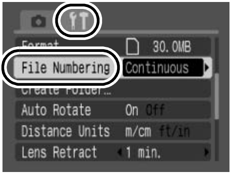
Resetting the File Number

The images you shoot are automatically assigned file numbers. You can select how the file number is assigned.

Continuous	A number one higher than the last one recorded is assigned to the next image. This is convenient for managing all your images together on a computer because you avoid file name duplication when changing folders or memory cards.* * When a blank memory card is used. If a memory card with recorded data is used, the 7-digit number for the last recorded folder and image is compared with the last one on the memory card, and the larger of the two is utilized as the basis for new images.
Auto Reset	The image and folder number are reset to the starting value (100-0001).* This is convenient for managing images on a folder-by-folder basis. * When a blank memory card is used. If a memory card with recorded data is used, the number following the 7-digit number for the last recorded folder and image on the memory card is utilized as the basis for new images.

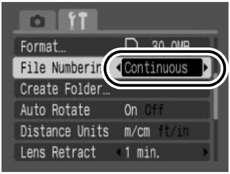
1 Select [File Numbering].

1. Press the **MENU** button.
2. Use the ← or → button to select the [setup icon] menu.
3. Use the ↑ or ↓ button to select [File Numbering].



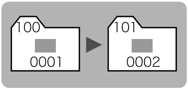
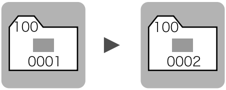
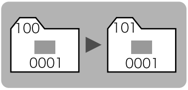
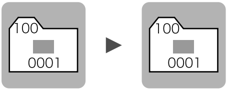
2 Make settings.

1. Use the ← or → button to select a file numbering setting.
2. Press the **MENU** button.



File and Folder Numbers

Recorded images are assigned consecutive file numbers starting with 0001 and ranging up to 9999, while folders are assigned numbers starting with 100 and ranging up to 999. Up to 2000 images can be saved into a single folder.

<table>
<tr><th></th><th>New Folder Created</th><th>Memory Card Exchanged for Another</th></tr>
<tr><td>Continuous</td><td>Memory Card 1

</td><td>Memory Card 1 Memory Card 2

</td></tr>
<tr><td>Auto Reset</td><td>Memory Card 1

</td><td>Memory Card 1 Memory Card 2

</td></tr>
</table>

- Images may be saved to a new folder when there is insufficient free space even if the total number of images in a folder is less than 2000 because the following types of images are always saved together into the same folder.
  - Images from continuous shooting
  - Self-timer images (custom)
- Images cannot be played back when the folder numbers are duplicated or image numbers are duplicated within folders.
- Please refer to the *Software Starter Guide* for information regarding folder structures or image types.

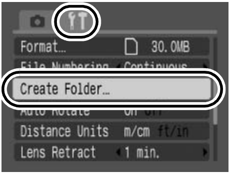
Creating an Image Destination (Folder)

You can create a new folder at any time and the recorded images will be automatically saved to that folder.

Create New Folder	Creates a new folder the next time you shoot images. To create an additional folder, insert the check mark again.
Auto Create	You can also specify a date and time if you wish to create a new folder using a shooting time after the specified date and time.

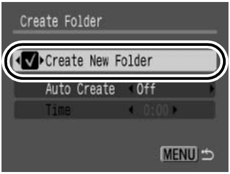
Creating a Folder the Next Time You Shoot

1 Select [Create Folder].



1. Press the **MENU** button.
2. Use the ← or → button to select the menu.
3. Use the ↑ or ↓ button to select [Create Folder].
4. Press the FUNC./SET button.

2 Make settings.

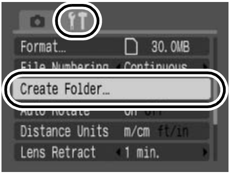


1. Use the ← or → button to check mark [Create New Folder].
2. Press the **MENU** button.

- will be displayed on the LCD monitor when shooting. The symbol will disappear from the screen when a new folder is created.

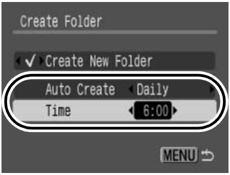
Setting the Day or Time for Automatic Folder Creation

1 **Select [Create Folder].**



1. Press the **MENU** button.
2. Use the ← or → button to select the [Set up] menu.
3. Use the ↑ or ↓ button to select [Create Folder].
4. Press the FUNC./SET button.

2 **Make settings.**



1. Use the ↑ or ↓ button to select [Auto Create] and the ← or → button to select a creation date.
2. Use the ↑ or ↓ button to select [Time] and the ← or → button to select a time.
3. Press the **MENU** button.

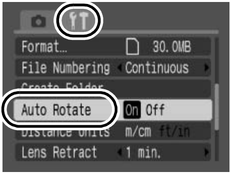
- [icon] displays when the specified time arrives. The symbol will cease to display after the new folder is created.

Up to 2000 images can be saved into one folder. A new folder will automatically be created when you record more than that number even if you are not creating new folders.

Setting the Auto Rotate Function

Your camera is equipped with an Intelligent Orientation sensor that detects the orientation of an image shot with the camera held vertically and automatically rotates it to the correct orientation when viewing it in the LCD monitor.

1 Select [Auto Rotate].

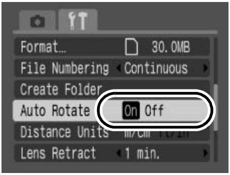


1. Press the **MENU** button.

2. Use the ← or → button to select the menu.

3. Use the ↑ or ↓ button to select [Auto Rotate].

2 Make settings.



1. Use the ← or → button to select [On] or [Off].

2. Press the **MENU** button.

- When the Auto Rotate function is set to [On] and the LCD monitor is set to the detailed display mode in the shooting mode, (normal), (right end is down) or (left end is down) will appear in the display.

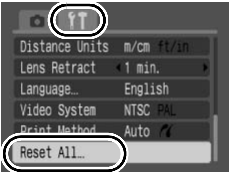
- This function may not operate correctly when the camera is pointed straight up or down. Check that the arrow is pointing in the right direction and if it is not, then set the Auto Rotate function to [Off].
- Even if the Auto Rotate function is set to [On], the orientation of images downloaded to a computer will depend upon the software used to download the images.

When the camera is held vertically to shoot, the Intelligent Orientation sensor judges the upper end to be "up" and the lower end to be "down". It then regulates the optimal white balance, exposure and focus for vertical photography. This function operates regardless of the on/off status of the Auto Rotate function.

Resetting Settings to Their Default Values

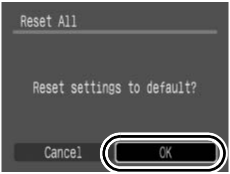
1 Select [Reset All].

1. Press the **MENU** button.
2. Use the ← or → button to select the menu.
3. Use the ↑ or ↓ button to select [Reset All].
4. Press the FUNC./SET button.



2 Make settings.

1. Use the ← or → button to select [OK].
2. Press the FUNC./SET button.



- Settings cannot be reset when the camera is connected to a computer or to a printer.
- The following cannot be reset
  - The shooting mode
  - The [Date/Time], [Language] and [Video System] options in the menu (p. 57)
  - White balance data recorded with the balance function (p. 116)

Connecting to a TV

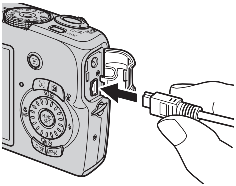
Shooting/Playback Using a TV

You can use the supplied AV cable to shoot or playback images using a TV.

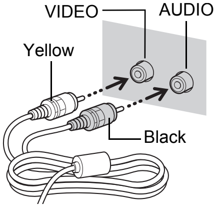
1 Turn off the camera and the TV.

2 Connect the AV cable to the camera's A/V OUT and DIGITAL terminal.

- Open the terminal cover by sliding to the left and plug the AV cable in all the way.



3 Plug the other ends of the AV cable to the VIDEO IN and AUDIO IN jacks on the TV.



4 Turn on the TV and switch it to video mode.

5 Turn on the camera.

- The video output signal can be switched (NTSC or PAL) to accommodate different regional standards (p. 57). The default setting varies between regions.
  - NTSC: Japan, U.S.A., Canada, Taiwan and others
  - PAL: Europe, Asia (excluding Taiwan), Oceania and others
- If the video system is set incorrectly, the camera output may not display properly.

Troubleshooting

Camera

Camera will not operate.	
Power is not turned on.	● Press the power button (p. 42).
Memory card/battery cover is open.	● Confirm that the memory card/battery cover is securely closed (p. 11).
Batteries are loaded in the wrong direction.	● Reload the batteries in the correct direction (p. 10).
Batteries are not the right type.	● Use only unused AA-size alkaline batteries or Canon AA-size NiMH batteries (p. 10).
Battery charge is low and the camera will not operate ("Change the batteries" message displays).	● Replace the camera batteries with two unused or fully charged batteries (p. 10). ● Use the AC Adapter Kit ACK800 (sold separately) (pp. 36, 191).
Poor contact between camera and battery terminals.	● Poor contact between camera and battery terminals. ● Reload the batteries several times.

Sounds come from the camera interior.	
The camera's horizontal/ vertical orientation was changed.	● The camera's orientation mechanism is operating. There is no malfunction.

When the power is turned on

"Card locked!" message appears.	
The SD memory card's or SDHC memory card's write protect tab is set to "Write protect".	● When recording to, erasing from or formatting the memory card, slide the write protect tab upward (p. 186).
The Date/Time menu appears.	
The lithium date battery charge is depleted.	● Replace the lithium date battery (p. 194).
The battery holder was removed.	● The date and time settings need to be reset since they were lost (p. 13).

LCD monitor

Nothing displays.	
[Power Saving] is set to [Display Off].	● Press any button other than the power button or change the camera orientation to turn the LCD monitor back on (p. 154).
The display darkens.	
The image in the LCD monitor will darken in strong sunlight or bright light.	● This is a normal occurrence in devices containing CCDs and does not constitute a malfunction. This image will not be recorded when shooting still photos, but it will be recorded when shooting movies.

Display flickers.	
Display flickers when shot under fluorescent lighting.	● This is not a camera malfunction (flickering recorded in movies, but not in still images).

A bar of light (purplish red) appears on the LCD monitor.	
Sometimes appears when shooting a bright subject, such as the sun or other light source.	● This is a normal occurrence in devices containing CCDs and does not constitute a malfunction. This bar of light will not be recorded when shooting still photos, but it will be recorded when shooting movies.

(camera shake icon) appears.	
A slow shutter speed has likely been selected because of insufficient lighting.	● Set the IS Mode to any setting other than [Off] (p. 72). ● Raise the ISO speed (p. 74). ● Use the Auto ISO Shift (p. 75). ● Set the flash to any setting other than (flash off icon) (flash off) (p. 65). ● Set the self-timer and secure the camera to something, such as a tripod (p. 68).

(warning icon) appears.	
This displays when using a memory card that has print settings or transfer settings set by other DPOF-compliant cameras.	● These settings will be overwritten by those set by your camera (pp. 148, 152).

Noise displays./Subject's movements are irregular.	
Camera automatically lightened the image displayed on the LCD monitor to make it easier to see when shooting in a dark area (p. 59).	● There is no effect on the recorded image.

Shooting

Camera will not record.	
Camera is in playback mode.	● Switch to Shooting mode (p. 44).
Camera is connected to a computer/printer mode.	● Switch to the shooting mode after disconnecting the interface cable in connecting to a computer/printer mode.
Flash is charging. (Blinking white ⚡ on LCD monitor.)	● When the flash is charged, the ⚡ icon stops blinking and lights steadily on LCD monitor. Shooting is now possible.
Memory card is full.	● Insert a new memory card (p. 10). ● If required, download the images to a computer and erase them from the memory card to make space.
Memory card is not formatted correctly.	● Format the memory card (p. 156). ● If reformatting does not work, the memory card logic circuits may be damaged. Consult the nearest Canon Customer Support Help Desk.
SD memory card or SDHC memory card is write protected.	● Slide the write protect tab upward (p. 186).

Image is blurred or out of focus.	
The camera moves when the shutter button is pressed.	● Confirm the procedures in " appears" (p. 166).
AF-assist Beam is set to [Off].	● In dark places where it is difficult for the camera to focus, the AF-assist Beam will emit to assist focusing. As the AF-assist Beam will not function when turned off, set it [On] to activate it (p. 53). Take care not to obstruct the AF-assist Beam with your hand when used.
Subject is out of focal range.	● Shoot with the subject at the correct focusing distance (p. 197). ● The camera may be set to an unintended function (such as macro). Cancel the setting.
The subject is hard to focus on.	● Use the focus lock, AF lock or manual focus to shoot (p. 106).

Subject in recorded image is too dark.	
Insufficient light for shooting.	● Raise the built-in flash to (Flash on) (p. 65).
The subject is underexposed because the surroundings are too bright.	● Set the exposure compensation to a positive (+) setting (p. 113). ● Use the AE Lock or spot metering functions (pp. 110, 114).
Subject is too far away for flash to reach.	● Shoot within correct flash range of the subject when using the built-in flash (p. 198). ● Raise the ISO speed and then shoot (p. 74).

Subject in recorded image is too bright, or image flashes white.	
Subject is too close, making the flash too strong.	● Shoot within correct flash range of the subject when using the built-in flash (p. 198). ● Adjust [Flash Exp. Comp] or [Flash Output] in the [Flash Settings] menu (p. 95). ● Set the safety FE to [On] (p. 95).
The subject is overexposed because the surroundings are too dark.	● Set the exposure compensation to a negative (–) setting (p. 113). ● Use the AE Lock or spot metering functions (pp. 110, 114).
Too much light is shining directly into the camera, or is being reflected off the subject.	● Change the shooting angle.
Flash is set to ⚡ (Flash on).	● Push down the flash to ⊘ (Flash off) (p. 65).

Image contains noise.	
ISO speed is too high.	● Higher ISO speeds and ISO HI (High ISO Auto) setting may increase image noise. For higher image quality, use as low an ISO speed as possible (p. 74). ● In [ ], [ ] and [ ] modes, or [ ] and ISO 3200 modes in the SCN mode, or when using the Auto ISO Shift, the ISO speed increases and noise can appear.

White dots appear on the image.	
Light from the flash has reflected off dust particles or insects in the air. This is particularly noticeable when shooting using the wide angle or when you increase the aperture value in the aperture priority Av mode.	● This is a phenomenon that occurs with digital cameras and does not constitute a malfunction.

Eyes appear red.	
Light is reflected back from the eyes when the flash is used in dark areas.	● Shoot with [Red-Eye Lamp] in the [Flash Settings] menu set to [On] (p. 95). For this mode to be effective, the subject must be looking right at the red-eye reduction lamp. Try asking them to look directly at the lamp. Even better results can be obtained by increasing the lighting in indoor settings or approaching closer to the subject. ● Set the [Red Eye Corr.] in the [Flash Settings] menu to [On] (p. 95) and then shoot. The camera will automatically correct red eyes while shooting and record the image to the card (p. 95). ● You can correct red eyes in recorded images using the [Red-Eye Correction] in the Playback menu (p. 137).

Continuous shooting slows down.	
The memory card's performance has dropped.	● To enhance the continuous shooting performance, you are recommended to low level format the memory card in the camera after you save all its images to your computer (p. 156).

Recording images to memory card takes a long time.	
Memory card was formatted in another device.	● Use a memory card formatted in your camera (p. 156).

Lens will not retract.	
Memory card/battery cover was opened with power on.	● After closing the memory card/battery cover, turn the power on then back off.

Shooting movies

The recording time may not display properly or shooting may stop unexpectedly.	
The following types of memory cards are used. - Slow recording cards. - Cards formatted on a different camera or a computer. - Cards which have had images recorded and erased repeatedly.	● Although the recording time may not display properly during shooting, the movie will be recorded correctly on the memory card. Recording time will display properly if you format the memory card in this camera (excluding slow recording memory cards) (p. 156).

"!" displayed on the LCD monitor in red and shooting automatically stopped.	
There is insufficient free space in the camera's built-in memory.	● Try the following procedures. - Format the card with a low level format before filming (p. 156). - Lower the recording pixels (p. 92).

Zoom does not operate.	
Zoom lever was pressed while shooting in movie mode.	● Operate the zoom before shooting in movie mode (p. 60). Note the digital zoom is available while shooting (only in Standard movie mode).

Playback

Cannot play back.

You attempted to play back images shot with another camera or images edited with a computer.	● Computer images that cannot be played back may play back if they are added to the camera using the supplied software program ZoomBrowser EX or ImageBrowser. See *ZoomBrowser EX/ImageBrowser Software User Guide (PDF)*.
File name was changed with a computer or file location was changed.	● Set the file name or location on the file format/structure of the camera (refer to the *Software Starter Guide* for details).

MENU, DISP., and buttons and the zoom lever are inoperable.

Easy mode is enabled.	● Set the mode dial to a position other than (Easy mode), and switch to playback mode.

Images cannot be edited.

Some images shot with another camera cannot be edited.

Movies do not play back correctly.

Movies recorded with high recording pixels may momentarily stop playing if played on slow reading memory cards.

You may experience frame dropping and audio breakup when playing back a movie on a computer with insufficient system resources.

Images shot with this camera may not play back properly on other cameras.

Reading images from memory card is slow.

Memory card was formatted in another device.	● Use a memory card formatted in your camera (p. 156).

Battery

Batteries consumed quickly.

Battery is not being used to its full capacity.	● See *Battery* (p. 185).
Batteries are not the right type.	● Use only unused AA-size alkaline batteries or Canon AA-size NiMH batteries (p. 185).
Battery capacity drops due to low ambient temperatures.	● If shooting in a cold location, warm the batteries such as by placing them in your pocket before using them.
Battery terminals are dirty.	● Wipe the terminals well with a dry cloth before use. ● Reload the batteries several times.

If using Canon AA-size NiMH batteries

As the batteries have not been used for over a year, their recharging capacity has decreased.	● Their charging performance should return to normal after fully recharging and depleting them over several times.
Battery life has been exceeded.	● Replace both batteries with new ones.

TV monitor output

Image is distorted or not showing on TV monitor.

Incorrect video system setting.	● Set the video system to the appropriate setting, NTSC or PAL, for your TV (p. 57).

Printing with a direct print compatible printer

Cannot print	
The camera and printer are not properly connected.	● Securely connect the camera and printer with the specified cable.
The printer power is not turned on.	● Turn on the printer power.
The print connection method is not correct.	● Select [Print Method] and select [Auto] (p. 57).

List of Messages

The following messages may appear on the LCD monitor during shooting or playback. Please refer to the *Direct Print User Guide* for the messages that display during a printer connection.

Busy...

Image is being recorded onto the memory card, red eye correction is being processed.
Resetting all the camera and menu settings to default.

No memory card

You turned on the camera without a memory card installed, or with a memory card installed in the wrong orientation (p. 10).

Card locked!

The SD memory card or SDHC memory card is write protected (p. 186).

Cannot record!

You attempted to shoot an image without a memory card installed, with a memory card installed in the wrong orientation, or attempted to attach a sound memo to a movie.

Memory card error

The memory card may be malfunctioning. By formatting the malfunctioning memory card with the camera, you may be able to continue using it (p. 156). However, if this error message appears even when using the supplied memory card, contact your Canon Customer Support Help Desk as there may be a problem with the camera.

Memory card full

Memory card is full of images and no more can be recorded or saved. In addition, no more image settings or sound memos can be recorded.

Naming error!

The file name could not be created because there is an image with the same name as the folder that the camera is attempting to create, or the highest possible file number has already been reached. In the Set up menu, set [File Numbering] to [Auto Reset]; alternatively, save all the images you wish to retain onto a computer, then reformat the memory card. Please note that formatting will erase all the existing images and other data.

Change the batteries

Battery charge is insufficient to operate the camera. Replace both batteries immediately with unused AA-size alkaline batteries or fully charged Canon AA-size NiMH batteries.
Also refer to *Battery* (p. 185).

No image.

No images recorded on memory card.

Image too large.

You attempted to play back an image larger than 5616 × 3744 pixels or with a large data size.

Incompatible JPEG

You attempted to play back an incompatible JPEG image (edited with a computer, etc.).

RAW

You attempted to play back a different type of RAW image.

Unidentified Image

You attempted to play back an image with corrupted data, an image with a recording type specific to another manufacturer's camera, or an image that has been downloaded to a computer and altered.

Cannot magnify!

You attempted to magnify an image recorded in a different camera or data type, an image edited with a computer, or a movie.

Cannot rotate

You attempted to rotate the image shot with a different camera or data type, or an image edited with a computer.

Incompatible WAVE

A sound memo cannot be added to this image since the data type of the existing sound memo is incorrect. In addition, sound cannot be played back.

Cannot modify image

You attempted to resize or perform red eye correction on a movie or an image recorded with another camera. Or you attempted to resize an image already resized to XS or an image shot in W.

Cannot assign to category

You attempted to categorize an image recorded in a different camera.

Cannot Modify

Cannot apply red-eye correction as no red-eye is detected.

Cannot transfer!

When transferring images to your computer using the Direct Transfer menu, you attempted to select a RAW image, an image with corrupted data, an image taken with a different camera or data type. You may have also attempted to select a movie when [Wallpaper] was selected in the Direct Transfer menu.

Protected!

You attempted to erase or edit a protected image, movie or sound memo.

Too many marks

Too many images have been marked with print settings or transfer settings. Cannot process any more.

Cannot complete!

Could not save a part of the print or transfer settings.

Unselectable image

You attempted to set the print settings for a non-JPEG image.

Communication error

The computer was unable to download the image due to the large amount of images (approx. 1000) stored on the memory card. Use a USB card reader or a PCMCIA card adapter to download the images.

Lens error, restart camera

An error was detected while the lens was in motion, and the power has been automatically turned off. This error can occur if you hold the lens while it is in motion or you operate it in a location with excessive dust or sand in the air. Try turning the power back on, and resume shooting or playback. If this message continues to display, contact your Canon Customer Support Help Desk as there may be a problem with the lens.

Exx

(xx: number) Camera detected an error. Turn the power off and then back on, then shoot or play back. A problem exists if the error code reappears. Note the number and contact your Canon Customer Support Help Desk. If an error code displays directly after taking a picture, the shot may not have been recorded. Check image in playback mode.

Appendix

Safety Precautions

- Before using the camera, please ensure that you read the safety precautions described below and in the “Safety Precautions” section. Always ensure that the camera is operated correctly.
- The safety precautions noted on the following pages are intended to instruct you in the safe and correct operation of the camera and its accessories to prevent injuries or damage to yourself, other persons and equipment.
- Equipment refers to the camera, battery, battery charger (sold separately) and compact power adapter (sold separately).

⚠ Warnings

Equipment

- **Do not point the camera at bright light sources (the sun in bright clear skies, etc.).**

• Doing so could damage the camera’s CCD.

- **Store this equipment out of the reach of children and infants.**

• Wrist strap: Placement of the strap around the child’s neck could result in asphyxiation.

• Memory card: It may be swallowed accidentally. If this occurs, contact a doctor immediately.

- **Do not attempt to disassemble or alter any part of the equipment that is not expressly described in this guide.**
- **To avoid the risk of high-voltage electrical shock, do not touch the flash portion of the camera if it has been damaged.**
- **Stop operating the equipment immediately if it emits smoke or noxious fumes.**
- **Do not allow the equipment to come into contact with, or become immersed in, water or other liquids. If the exterior comes into contact with liquids or salt air, wipe it dry with a soft, absorbent cloth.**

Continued use of the equipment may result in fire or electrical shock. Immediately turn the camera power off and remove the camera batteries or unplug the battery charger or compact power adapter from the power outlet. Please consult your camera distributor or the closest Canon Customer Support Help Desk.

- **Do not use substances containing alcohol, benzine, thinners or other flammable substances to clean or maintain the equipment.**
- **Do not cut, damage, alter or place heavy items on the power cord.**
- **Use only recommended power accessories.**
- **Remove the power cord on a regular periodic basis and wipe away the dust and dirt that collects on the plug, the exterior of the power outlet and the surrounding area.**
- **Do not handle the power cord if your hands are wet.**

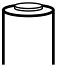
Continued use of the equipment may result in fire or electrical shock.

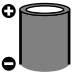
Battery

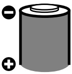
- **Do not place the batteries near a heat source or expose it to direct flame or heat.**
- **The batteries should not be immersed in water or sea water.**
- **Do not attempt to disassemble, alter or apply heat to the batteries.**
- **Avoid dropping or subjecting the batteries to severe impacts that could damage the casing.**
- **Use only recommended batteries and accessories.**

Failure to follow these precautions may cause explosions or leaks, resulting in fire, injury and damage to the surroundings. In the event that a battery leaks and the eyes, mouth, skin or clothing contact these substances, immediately flush with water and seek medical assistance.

- **Never use damaged batteries or batteries whose outer seal is completely or partially missing or peeled off, as there is risk that such batteries may leak, overheat, or burst. Always check the seals on store-bought batteries before loading them, as some batteries may come with defective seals. Do not use batteries with defective seals.**
  Never use batteries that look like this.


Batteries with all or part of the seal (electrical insulation sheath) peeled off.


The positive electrode (plus terminal) is flat.


The negative terminal is correctly formed (protruding from the metal base), but the seal does not extend up over the edge of the metal base.

- **Disconnect the battery charger and compact power adapter from both the camera and the power outlet after recharging or when not in use to avoid fire and other hazards.**
- **Do not place anything, such as tablecloths, carpets, bedding or cushions, on top of the battery charger while it is charging.**

Leaving the units plugged in for a long period of time may cause them to overheat and distort, resulting in fire.

- **When recharging the Canon AA-size NiMH batteries, use only a specified battery charger.**
- **The compact power adapter is designed for exclusive use with this equipment. Do not use it with other products.**

There is a risk of overheating and distortion which could result in fire or electrical shock.

- **Before you discard a battery, cover the terminals with tape or other insulators to prevent direct contact with other objects.**

Contact with the metallic components of other materials in waste containers may lead to fire or explosions.

Others

- **Do not trigger the flash in close proximity to human or animal eyes. Exposure to the intense light produced by the flash may damage eyesight.**

In particular, remain at least one meter (39 inches) away from infants when using the flash.

- **Keep objects that are sensitive to magnetic fields (such as credit cards) away from the speaker of the camera.**

Such items may lose data or stop working.

⚠Cautions

Equipment

- **Be careful not to bang the camera or subject it to strong impacts or shocks that could lead to injury or damage the equipment when wearing or holding it by the strap.**
- **Be careful not to bump or strongly push the end of the lens.**

The above-mentioned could lead to injury or damage the equipment.

- **Be careful not to allow dust or sand into the camera when using it at a beach or place with strong winds.**

Such conditions could lead to damage.

- **Do not store the equipment in humid or dusty areas.**
- **During shooting, do not allow metal objects (such as pins or keys) or dirt to contact the charger terminals or plug.**

Such conditions could lead to fire, electrical shock or other damage.

- **Avoid using, placing or storing the equipment in places subject to strong sunlight or high temperatures, such as the dashboard or trunk (boot) of a car.**
- **Do not use the equipment in a manner that exceeds the rated capacity of the electrical outlet or wiring accessories. Also, do not use the equipment if the cable or plug is damaged, or if the plug is not fully inserted into the power outlet.**
- **Do not use in locations with poor ventilation.**

The above-mentioned can cause leakage, overheating or explosion, resulting in fire, burns or other injuries. High temperatures may also cause deformation of the casing.

- **When not using the camera for extended periods of time, remove the batteries from the camera or battery charger and store the equipment in a safe place.**

If the batteries are left inside the camera, damage caused by leakage may occur.

- **Do not connect compact power adapters or battery chargers to devices such as electrical transformers for foreign travel because it may lead to malfunctions, excessive heat generation, fire, electric shock or injury.**

Flash

- **Do not operate the flash with dirt, dust or other items stuck to the surface of the flash.**
- **Be careful not to cover the flash with your fingers or clothing when shooting.**

The flash may be damaged and emit smoke or noise. The resulting heat build-up could damage the flash.

- **Do not touch the surface of the flash after taking several pictures in rapid succession.**

Doing so could result in burns.

Preventing Malfunctions

Camera

Avoid Strong Magnetic Fields

- **Never place the camera in close proximity to electric motors or other equipment generating strong electromagnetic fields.**

Exposure to strong magnetic fields may cause malfunctions or corrupt image data.

Avoid Condensation Related Problems

- **When moving the equipment rapidly from cold to hot temperatures, you can avoid condensation by placing the equipment in an airtight, resealable plastic bag and letting it adjust to temperature changes slowly before removing it from the bag.**

If condensation forms on the camera, remove the memory card and battery, and set the camera aside in room temperature to allow the condensation to naturally evaporate before using the camera again.

Battery

- **This camera uses AA-size alkaline batteries or Canon AA-size NiMH batteries (sold separately).**

While it is possible to use AA-size nickel-cadmium batteries, performance is unreliable and their use is not recommended.

- **Since the performance of alkaline batteries may differ according to brand, the operating time of the batteries you purchase may not be as long as the batteries that came with the camera.**

- **When using the camera under low temperature conditions or over long periods, you are recommend to use of Canon AAsize NiMH batteries (sold separately).**

Camera operating time may shorten at low temperatures when alkaline batteries are used. Also due to their specifications, alkaline batteries may expire faster than NiMH batteries.

- **Never mix unused and partially used batteries.**

The partially used batteries may leak.

- **Do not install the batteries with their terminals (⊕ and ⊖) reversed.**

- **Do not mix batteries of different types or from different manufacturers.**

- **Before installing the batteries, wipe the battery terminals well with a dry cloth.**

If the battery terminals are soiled with oil from one's skin or other dirt, the number of recordable images may be considerably diminished, or the amount of time the camera can be used may be reduced.

- **At low temperatures, battery performance may be reduced and the low battery icon ( ) may appear earlier than usual.**

Under these conditions, restore the battery performance by warming it in a pocket immediately before use.

- **Do not put the batteries into a pocket together with metallic items such as a key ring.**

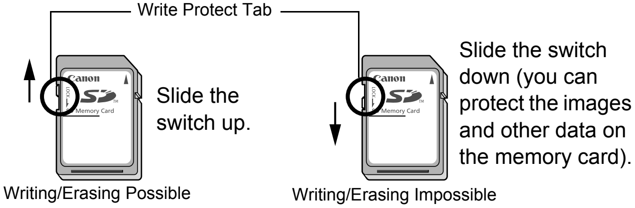
The batteries may be short circuited.

- **When not using the camera for long periods, remove the batteries from the camera and store them separately.**

If the batteries are left inside the camera, the camera may become damaged from battery leakage.

Memory Card

- **SD Memory Card or SDHC Memory Card Write Protect Tab**



- **Memory cards are high-precision electronic devices. Do not bend them, apply force to them, or subject them to shocks or vibration.**

- **Do not attempt to disassemble or alter the memory card.**

- **Do not allow dirt, water or foreign objects to contact the terminals on the back of the memory card. Do not touch the terminals with your hands or metal objects.**

- **Do not peel away the original label on the memory card or cover it with another label or sticker.**

- **When writing on the memory card, do not use a pencil or ballpoint pen. Only use a soft point pen (e.g. felt-tip pen).**

- **Do not use or store memory cards in the following locations.**
  - Locations subject to dust or sand
  - Locations subject to high humidity and high temperatures

- **Since some or all of the data recorded on the memory card may be corrupted or erased by electrical noise, static electricity, camera or memory card malfunction, making a backup copy of important data is recommended.**

- **Please note that formatting (initializing) an memory card erases all data, including protected images.**

- **You are recommended to use memory cards that have been formatted in your camera.**
  - The memory card supplied with the camera may be used without further formatting.
  - When the camera is malfunctioning, a corrupted memory card might be the cause. Reformatting the memory card may solve the problem.
  - When a non-Canon brand memory card is malfunctioning, reformatting it may solve the problem.
  - Memory cards formatted in other cameras, computers, or peripheral devices may not operate correctly in this camera. When that happens, reformat the memory card with this camera.

- **If formatting in the camera does not work properly, turn the camera off and re-insert the memory card. Then turn the camera back on and format again.**

- **Be careful when transferring or disposing of a memory card. Formatting or erasing the data on a memory card merely changes the file management information on the memory card and does not ensure that its contents are completely deleted. When disposing of a memory card, take precautions, such as physically destroying the memory card, to prevent personal information leaks.**

LCD Monitor

- **Do not sit in a chair with the camera in your pocket.**

Doing so may cause malfunction or damage the LCD monitor.

- **When putting the camera in your bag, ensure that hard objects do not come into contact with the LCD monitor.**

If this occurs, it may cause malfunction or damage the LCD monitor.

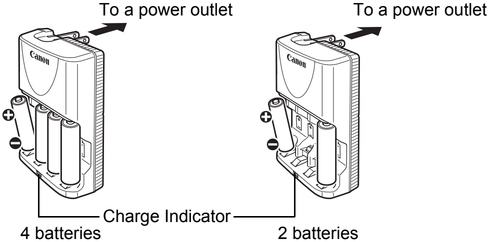
- **Do not attach accessories to the strap.**

Doing so may cause malfunction or damage the LCD monitor.

Using the Power Kits (Sold Separately)

Using Rechargeable Batteries (Battery and Charger Kit CBK4-300)

This kit includes a battery charger and four rechargeable AA-size NiMH (nickel metal hydride) batteries. Charge batteries as shown below.



- After inserting the batteries, plug the charger (CB-5AH) into an outlet, or attach the power cord to the charger (CB-5AHE, not shown) and plug the other end into an outlet.
- Do not insert and charge additional batteries once charging has begun.
- The charge indicator blinks while charging, then remains lit when charging is finished.

- The CB-5AH/CB-5AHE battery charger can only be used to charge Canon AA-size NiMH batteries NB-3AH.
- Do not mix batteries with different purchase dates or different charge states. When recharging batteries, always recharge both of them at the same time.
- Do not attempt to recharge fully charged batteries, as doing so may reduce or impair battery performance. Also, do not charge batteries for more than 24 consecutive hours.
- Do not recharge batteries in enclosed areas that tend to retain heat.

- Do not recharge the batteries until the LCD monitor displays the “Change the batteries” message. Repeatedly recharging batteries before they become depleted may cause batteries to lose capacity.
- Wipe the battery terminals well with a dry cloth in the following situations, as the terminals may be soiled with oil from one’s skin or other dirt:
  - If the battery usage time has considerably diminished
  - If the number of recordable images has considerably diminished
  - When charging the batteries (insert and remove the batteries two or three times before charging)
  - When charging completes in a space of a few minutes (the battery charger indicator remains lit)
- You may not be able to fully charge the batteries due to their specifications right after purchase or after long periods of nonuse. If this happens, after fully charging them, use the batteries until their charge is depleted. After doing this several times, battery performance will be restored.
- If you store batteries for a long period of time (about 1 year), it is recommended that you deplete the batteries in the camera and to then store them at room temperature (0 to 30°C/32 to 90°F) in low humidity. Storing them in a fully charged condition can shorten their lifespan or degrade their performance. Again, if you do not use batteries for more than 1 year, fully charge them once a year and deplete them in the camera before storing them.
- If the battery usage time has become considerably low despite wiping the terminals and charging them until the battery charger indicator remains lit, this may indicate that the batteries have reached the end of their lifespan. Replace them with new batteries. If you are purchasing new batteries, look for Canon AA-size NiMH batteries.
- Leaving batteries in the camera or charger may result in damage from battery leakage. When not in use, remove the batteries from the camera or charger and store them in a cool, dry location.

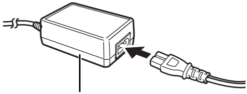
- It takes approximately 4 hours 40 minutes for the charger to fully recharge the batteries after they have been depleted. When two batteries are placed on each side of the charger, recharging will take approximately two hours (as determined by testing at Canon facilities).
  Charge batteries in an environment where the temperature is in the range of 0 to 35°C (32 to 95°F).
- The charging time varies according to the ambient temperature and to the battery charge state.
- The battery charger may emit noise while charging. This is not a malfunction.

Using the AC Adapter Kit ACK800

It is best to power the camera with AC Adapter Kit ACK800 (sold separately) when you are using it for long periods of time or connecting it to a computer.

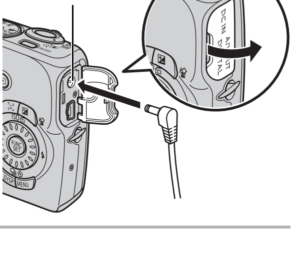
Turn the camera power off before connecting or disconnecting the AC adapter.

1 Connect the power cord to the compact power adapter first and then plug the other end into the power outlet.



Compact Power Adapter CA-PS800

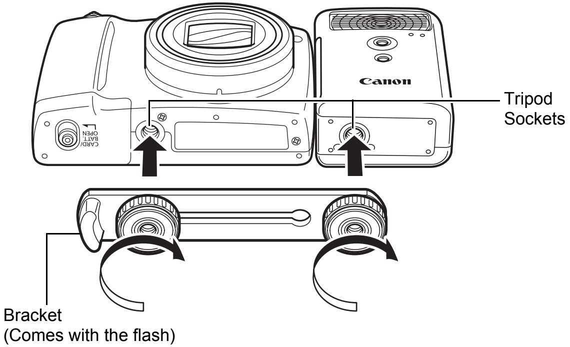
2 Open the terminal cover and attach the cord to the DC IN terminal.



Using an Externally Mounted Flash (Sold Separately)

High-Power Flash HF-DC1

This flash is used to supplement the camera's built-in flash when the subject is too far away for proper illumination. Use the following procedures to affix the camera and High-Power Flash to the supporting bracket.
Please read the instructions accompanying the flash along with this explanation.



- The High-Power Flash will not fire under the following circumstances.
  - When the flash is closed
  - When shooting in **M** mode
  - When [Flash Mode] is on [Manual] (p. 95)
- The flash charge time will lengthen as the battery charge gets weaker. Always set the power/mode switch to off when you finish using the flash.
- Be careful not to touch the flash window or sensor windows with your fingers while the flash is in use.

- The flash may fire if another flash is being used in close proximity.
- The High-Power Flash may not fire outdoors in daylight or when there are no reflective items.
- For continuous shooting, although the flash fires for the first shot, it does not fire for subsequent shots.
- Fasten the attachment screws securely so that they do not loosen. Failure to do so may lead to the dropping of the camera and flash resulting in damage to both.

- Before attaching the bracket to the flash, check that the lithium battery (CR123A or DL123) is installed.
- To illuminate the subjects properly, install the flash so that it is up against the side of the camera and parallel with the camera's front panel.
- A tripod can be used even when the flash is attached.

Batteries

● Charge becomes Severely Limited

If the battery usage time has considerably diminished, wipe the battery terminals well with a dry cloth. The terminals may be dirty from fingerprints.

● Usage in Cold Temperatures

Get a spare generic lithium battery (CR123A or DL123). You are recommended to place the spare battery in your pocket to warm it up before switching it for the battery in the flash.

● Non-Use over Extended Periods

Leaving batteries in the High-Power Flash could allow the battery fluid to leak, damaging the product. Remove the batteries from the High-Power Flash and store them in a cool, dry place.

Replacing the Date Battery

If the Date/Time in the Set up menu appears when the camera power is turned on, the date battery charge is low and the date and time setting have been lost. Please purchase a lithium coin battery (CR1220) and replace it as follows.

The date battery is preinstalled at the factory and may therefore expire earlier than its rated lifespan after the camera has been purchased.

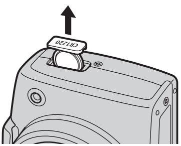
⚠ Be particularly careful to keep the date batteries out of the reach of children. Seek medical assistance immediately if a child swallows a battery since corrosive battery fluids could damage the stomach or intestinal wall.

1 Confirm that the camera is turned off.

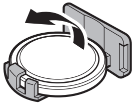
2 Hook your nail onto the date battery holder and lightly pull it up.



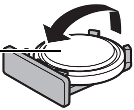
3 Pull out the battery holder in the direction indicated by the arrow.



4 **Remove the battery by pulling it up in the direction indicated by the arrow.**



5 **Insert a new battery with the (–) side facing up.**



6 **Replace the battery holder.**

7 **When the Date/Time menu appears, set the date and time (p. 13).**

After purchasing the camera and turning on the power for the first time, although the Date/Time menu will appear, you do not need to replace the date battery.

Camera Care and Maintenance

Never use thinners, benzine, detergents or water to clean the camera. These substances may distort or damage the equipment.

Camera Body

Gently wipe dirt off the camera body with a soft cloth or eyeglass lens wiper.

Lens

First use a lens blower brush to remove dust and dirt, then remove any remaining dirt by wiping the lens lightly with a soft cloth.

Never use organic solvents on the camera body or lens. If dirt remains, contact the closest Canon Customer Support Help Desk as listed on the separate customer support list supplied with your camera.

LCD Monitor

Use a lens blower brush to remove dust and dirt. If necessary, gently wipe with a soft cloth or an eyeglass lens wiper to remove stubborn dirt.

Never rub or press strongly on the LCD monitor. These actions may damage it or lead to other problems.

Specifications

All data is based on Canon's standard testing methods. Product specifications and appearance are subject to change without notice, at our sole discretion.

PowerShot SX110 IS

(W): Max. wide angle (T): Max. telephoto

Camera Effective Pixels	: Approx. 9.0 million
Image Sensor	: 1/2.3-inch type CCD (Total number of pixels: Approx. 10.3 million pixels)
Lens	: 6.0 (W) – 60 (T) mm (35mm film equivalent: 36 (W) – 360 (T) mm) f/2.8 (W) – f/4.3 (T)
Digital Zoom	: Approx. 4.0x (Up to approx. 40x in combination with the optical zoom)
LCD Monitor	: 3.0-inch type, TFT color LCD, approx. 230,000 dots, picture coverage 100%
AF System	: TTL autofocus AF lock and Manual focus are available AF frame: Face Detect*1*2/Center*3 *1 AF frame can be moved and fixed to specified face. *2 If no face is detected, center 1-point is used. *3 Size of AF frame can be selected.
Focusing Range (From the front of the lens)	: Normal: 50 cm (1.6 ft.) – infinity (W)/ 1 m (3.3 ft.) – infinity (T) Macro: 1 – 50 cm (W) (0.39 in. –1.6 ft. (W)) Manual focus: 1 cm (0.39 in.) – infinity (W), 1 m (3.3 ft.) – infinity (T) Easy mode: 5 cm (2.0 in.) – infinity (W)/ 1 m (3.3 ft.) – infinity (T) Kids&Pets: 1 m (3.3 ft.) – infinity (W/T)
Shutter	: Mechanical shutter + electronic shutter
Shutter Speeds	: 1/8 – 1/2500 sec. 15 – 1/2500 sec. (Total shutter speed range) • Slow shutter speeds of 1.3 sec. or slower operate with noise reduction.

Image Stabilization	: Lens-shift type Continuous/Shoot Only*/Panning*/Off * Still images only.
Metering System	: Evaluative*1, Center-weighted average or Spot*2 *1 Facial brightness is also evaluated in Face Detect AF. *2 Fixed to center.
Exposure Compensation	: ±2 stops in 1/3-stop increments Safety Shift is available.
ISO Speed (Standard Output Sensitivity, Recommended Exposure Index)	: Auto*1, High ISO Auto*2, ISO 80/100/200/400/800/1600 *1 Camera automatically sets the optimal speed according to shooting mode and subject brightness. *2 Camera automatically sets the optimal speed according to shooting mode, subject brightness, subject movement and camera shake. However, the ISO speed is set relatively higher than Auto.
White Balance	: Auto*, Day Light, Cloudy, Tungsten, Fluorescent, Fluorescent H or Custom * The colors of faces are evaluated in Face Detect AF.
Built-in Flash	: Auto, on, off Flash output compensation (±2.0 stops in 1/3-stop increments), Red-Eye Correction, Red-Eye Reduction, flash output settings (3 steps), FE Lock, Slow Synchro and Safety FE are available. • Facial brightness is also evaluated in Face Detect AF.
Built-in Flash Range	: 50 cm – 3.0 m (1.6 – 9.8 ft.) (W)/ 1.0 m – 2.0 m (3.3 – 6.6 ft.) (T) • Brightness of image periphery may reduce depending on shooting distance.

Shooting Modes	: Auto Easy Creative zone: P Program, Tv Shutter-speed priority, Av Aperture priority, M Manual Image zone: Portrait, Landscape, Night Snapshot, Kids&Pets, Indoor, SCN Special Scene*1 and Movie*2 *1 Night Scene, Sunset, Foliage, Snow, Beach, Fireworks, Aquarium and ISO 3200. *2 Standard and Compact.
Continuous Shooting	: Approx. 1.2 shots/sec. Approx. 0.7 shots/sec. (Continuous Shooting AF) Approx. 0.7 shots/sec. (Continuous Shooting LV)
Self-timer	: Approx. 10-sec./approx. 2-sec. delay or custom
Recording Media	: SD memory card/SDHC memory card/ MultiMediaCard/MMCplus card/HC MMCplus card
File Format	: Design rule for camera file system and DPOF compliant
Data Type	: Still images: Exif 2.2 (JPEG)* : Movies: AVI (Image data: Motion JPEG; Audio data: WAVE (monaural)) : Sound Memo: WAVE (monaural) * This digital camera supports Exif 2.2 (also called “Exif Print”). Exif Print is a standard for enhancing the communication between digital cameras and printers. By connecting to an Exif Print-compliant printer, the camera’s image data at the time of shooting is used and optimized, yielding extremely high quality prints.
Compression	: Superfine, Fine, Normal

Number of Recording Pixels	(Still images) :	Large : 3456 × 2592 pixels Medium 1 : 2816 × 2112 pixels Medium 2 : 2272 × 1704 pixels Medium 3 : 1600 × 1200 pixels Small : 640 × 480 pixels Date Stamp : 1600 × 1200 pixels Widescreen : 3456 × 1944 pixels
	(Movies) :	Standard :640 × 480 pixels (30 frames/sec.) 640 × 480 pixels (30 frames/sec. LP) :320 × 240 pixels (30 frames/sec.) Recording can continue until the memory card is full (can record up to a maximum of 4 GB* at one time) : Compact:160 × 120 pixels (15 frames/sec.) Maximum recording length per clip: 3 min. * Even if the file size has not reached 4 GB, the recording is stopped when the recording time reaches one hour. Depending on memory card capacity and data write speed, recording may stop before the file size reaches 4 GB or the recording time reaches one hour.
Audio	:	Quantization Bit Rate: 8 bit Sampling Rate Sound Memos and Movies: 11 kHz
Remote Shooting	:	Shooting possible when connected to a computer using supplied software.
Playback Modes	:	Single (histogram displayable), Index (9 images), Magnified (approx. 2x to 10x max.), Resume Playback, Image Inspection Tool, Jump, My Category, Movie Playback (slow motion available), Rotate, Slide Show, Red-Eye Correction, Resize, Sound Memo (recording/ playback up to 1 min.) or Protect.
Direct Print	:	PictBridge compliant, and Canon Direct Print and Bubble Jet Direct compatible

Interface	: Hi-Speed USB (Dedicated connector (female) with unified type of digital, audio and video*) * mini-B compatible. Audio/Video output: NTSC or PAL selectable, monaural audio
Communication Settings	: MTP, PTP
Power Source	: 2 AA-size alkaline batteries 2 AA-size NiMH batteries NB4-300 (sold separately), AC Adapter Kit ACK800 (sold separately)
Operating Temperatures	: 0 – 40 °C (32 – 104 °F) (0 – 35 °C (32 – 95 °F) when NB-3AH is used.)
Operating Humidity	: 10 – 90%
Dimensions (excluding protrusions)	: 110.6 × 70.4 × 44.7 mm (4.35 × 2.77 × 1.76 in.)
Weight (camera body only)	: Approx. 245 g (8.64 oz.)

Battery Capacity

	Number of Images Shot	Playback Time
	LCD Monitor On (Based on the CIPA standard)	
AA-size Alkaline Batteries (included with the camera)	Approx. 140 images	Approx. 5 hours
AA-size NiMH Batteries (NB-3AH (fully charged))	Approx. 400 images	Approx. 8 hours

- The actual figures will vary according to the shooting conditions and camera settings.
- Movie data is excluded.
- At low temperatures, the battery performance may diminish and the low battery icon (blinking red) may appear very rapidly. In these circumstances, the performance can be improved by warming the battery in a pocket before use.

Test Conditions

Shooting: Normal temperature (23 °C ±2 °C/73 °F ±3.6 °F), normal relative humidity (50% ±20%), alternating wide angle end and telephoto end shots at 30 second intervals with the flash fired once every two shots and the camera power turned off after every tenth shot. Power is left off for a sufficient amount of time*, then the power is turned back on and the testing procedure is repeated.

* Until the battery returns to normal temperature

Playback: Normal temperature (23 °C ±2 °C/73 °F ±3.6 °F), normal relative humidity (50% ±20%), continuous playback at 3 seconds per image.

See *Battery* (p. 185).

Memory Cards and Estimated Capacities

Still Image

☐: Memory card included with the camera

Recording Pixels	Compression	32 MB	2 GB	8 GB
L (Large) 3456 × 2592 pixels	Superfine	7	499	1996
	Fine	12	841	3364
	Normal	26	1707	6822
M1 (Medium 1) 2816 × 2112 pixels	Superfine	10	714	2855
	Fine	17	1181	4723
	Normal	37	2363	9446
M2 (Medium 2) 2272 × 1704 pixels	Superfine	14	960	3837
	Fine	26	1707	6822
	Normal	52	3235	12927
M3 (Medium 3) 1600 × 1200 pixels	Superfine	29	1862	7442
	Fine	52	3235	12927
	Normal	99	6146	24562
S (Small) 640 × 480 pixels	Superfine	111	6830	27291
	Fine	171	10245	40937
	Normal	270	15368	61406
(Date Stamp) 1600 × 1200 pixels	Fine	52	3235	12927
W (Widescreen) 3456 × 1944 pixels	Superfine	9	653	2612
	Fine	16	1117	4465
	Normal	35	2276	9096

This reflects standard shooting criteria established by Canon. Actual results may vary according to the subject and shooting conditions.

Movie

: Memory card included with the camera

	Recording Pixels/ Frame Rate		32 MB	2 GB	8 GB
Standard		640 × 480 pixels 30 frames/sec.	15 sec.	16 min. 47 sec.	1 hr. 7 min. 6 sec.
		640 × 480 pixels 30 frames/sec. LP	30 sec.	33 min. 2 sec.	2 hrs. 12 min. 3 sec.
		320 × 240 pixels 30 frames/sec.	43 sec.	46 min. 33 sec.	3 hrs. 6 min. 4 sec.
Compact		160 × 120 pixels 15 frames/sec.	3 min. 30 sec.	3 hrs. 24 min. 54 sec.	13 hrs. 38 min. 45 sec.

- Maximum movie clip length at : 3 min. The figures indicate the maximum continuous recording time.
- Depending on the memory card, recording may stop even if the max. clip length has not been reached. Use of SD Speed Class 4 or higher memory cards is recommended.

Image Data Sizes (Estimated)

Recording Pixels		Compression		
L	3456 × 2592 pixels	3888 KB	2302 KB	1100 KB
M1	2816 × 2112 pixels	2720 KB	1620 KB	780 KB
M2	2272 × 1704 pixels	2002 KB	1116 KB	556 KB
M3	1600 × 1200 pixels	1002 KB	558 KB	278 KB
S	640 × 480 pixels	249 KB	150 KB	84 KB
	1600 × 1200 pixels	–	558 KB	–
W	3456 × 1944 pixels	2946 KB	1727 KB	825 KB

	Recording Pixels/Frame Rate		File size
Standard		640 × 480 pixels 30 frames/sec.	1920 KB/sec.
		640 × 480 pixels 30 frames/sec. LP	960 KB/sec.
		320 × 240 pixels 30 frames/sec.	660 KB/sec.
Compact		160 × 120 pixels 15 frames/sec.	120 KB/sec.

MultiMediaCard

Interface	Compatible with MultiMediaCard standards
Dimensions	32.0 × 24.0 × 1.4 mm (1.3 × 0.9 × 0.06 in.)
Weight	Approx. 1.5 g (0.05 oz.)

SD Memory Card

Interface	Compatible with SD memory card standards
Dimensions	32.0 × 24.0 × 2.1 mm (1.3 × 0.9 × 0.1 in.)
Weight	Approx. 2 g (0.07 oz.)

NiMH Battery NB-3AH

(Supplied with the separately sold NiMH Battery NB4-300 set or the Battery and Charger Kit CBK4-300)

Type	AA-size nickel metal hydride battery
Nominal Voltage	1.2 V DC
Typical Capacity	2500 mAh (min.: 2300 mAh)
Cycle Life	Approx. 300 times
Operating Temperatures	0 – 35 °C (32 – 95 °F)
Diameter × Length	14.5 mm × 50.0 mm (0.57 × 1.97 in.)
Weight	Approx. 30 g (1.06 oz.)

USA and Canada only:
The Nickel-Metal Hydride battery that powers the product is recyclable.
Please call 1-800-8-BATTERY for information on how to recycle this battery.

Battery Charger CB-5AH/CB-5AHE

(Supplied with the separately sold Battery and Charger Kit CBK4-300)

Rated Input	100 – 240 V AC (50/60 Hz)
Rated Output	565 mA*1 × 4, 1275 mA*2 × 2
Charging Time	Approx. 4 hours 40 min.*1, Approx. 2 hours*2
Operating Temperatures	0 – 35 °C (32 – 95 °F)
Dimensions	65.0 × 105.0 × 27.5 mm (2.56 × 4.13 × 1.08 in.)
Weight	Approx. 95 g (3.35 oz.)

*1 When charging four NB-3AH batteries

*2 When charging two NB-3AH batteries loaded one on each side of the battery charger

Compact Power Adapter CA-PS800

(Included with the separately sold AC Adapter Kit ACK800

Rated Input	100 – 240 V AC (50/60 Hz)
Rated Output	3.15 V DC, 2.0 A
Operating Temperatures	0 – 40 °C (32 – 104 °F)
Dimensions	42.6 × 104.0 × 31.4 mm (1.68 × 4.11 × 1.24 in.)
Weight	Approx. 180 g (6.35 oz.) (excluding power cord)

When connecting to and using a household power outlet, use only AC Adapter Kit ACK800 (rated input: 100 – 240 V AC 50/60 Hz, rated output: 3.15 V DC). Using anything else can cause fire, overheating, or electrical shock.

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FCC Notice
(Digital Camera, Model PC1311 Systems)

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions;

(1) this device may not cause harmful interference, and
(2) this device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for Class B digital devices, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

The cable with the ferrite core provided with the digital camera must be used with this equipment in order to comply with Class B limits in Subpart B of Part 15 of the FCC rules.

Do not make any changes or modifications to the equipment unless otherwise specified in the manual. If such changes or modifications should be made, you could be required to stop operation of the equipment.

Canon U.S.A., Inc.

One Canon Plaza, Lake Success, NY 11042, U.S.A.

Tel No. (516) 328-5600

Canadian Radio Interference Regulations
This Class B digital apparatus complies with Canadian ICES-003.

Réglementation canadienne sur les interférences radio
Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

Disclaimer

- While every effort has been made to ensure that the information contained in this guide is accurate and complete, no liability can be accepted for any errors or omissions.
- Canon reserves the right to change the specifications of the hardware and software described herein at anytime without prior notice.
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Trademark Acknowledgments

- The SDHC logo is a trademark.

For CA, USA only

Included lithium battery contains Perchlorate Material - special handling may apply.

See www.dtsc.ca.gov/hazardouswaste/perchlorate/ for details.

Functions Available in Each Shooting Mode

Only functions with settings that change with the shooting mode are listed here.

Function			M	Av	Tv	P	AUTO	♥
Exposure Compensation (p. 113)			–	○	○	○	–	–
IISO Speed (p. 74)	Auto[1]		–	○	○	○	○	–
	High ISO Auto		–	–	–	○	○	○
	ISO 80 – 1600		○	○	○	○	–	–
	ISO 3200		–	–	–	–	–	–
White Balance (p. 115)	Auto[1]		○	○	○	○	○	○
	Other than Auto		○	○	○	○	–	–
Drive Mode (pp. 93, 68)	Single Shot		○	○	○	○	○	○
	Continuous		○	○	○	○	–	–
	Continuous AF[2]		○	○	○	○	–	–
	Self-timer	2 sec./10 sec.	○	○	○	○	○	–
		Custom Timer	○	○	○	○	○	–
My Colors (p. 118)			○	○	○	○	–	–
Flash Exposure Compensation (p. 95)			–	○	○	○	–	–
Flash Output Control (p. 95)			○	○	○	–	–	–
Metering System (p. 114)	Evaluative		○	○	○	○	○	○
	Center-weighted Average		○	○	○	○	–	–
	Spot		○	○	○	○	–	–
Number of Recording Pixels (still images) (p. 70)			○	○	○	○	○	–[3]
Compression (still images) (p. 71)			○	○	○	○	○	–[5]
Date Stamp (Date, Date & Time) (p. 22)			○	○	○	○	○	–
Number of Recording Pixels, Frame Rate (Movie) (p. 92)	640 × 480, 30 fps/30 fps LP		–	–	–	–	–	–
	320 × 240, 30 fps		–	–	–	–	–	–
	160 × 120, 15 fps		–	–	–	–	–	–
Av/Tv Setting (pp. 85, 83)			○	○[6]	○[7]	–	–	–
Program Shift (p. 111)			–	○	○	○	–	–
AE/FE Lock (still images) (pp. 110, 112)			–	○	○	○	–	–
AE Lock, Exposure Shift (movies) (p. 91)			–	–	–	–	–	–
Shooting Zone (p. 67)	Normal		○	○	○	○	○	–
	Macro		○	○	○	○	○	–
	Normal + Macro		–	–	–	–	–	○
Manual Focus (p. 108)			○	○	○	○	–	–
Face Select and Track (p. 104)			○	○	○	○	○	–
Flash (p. 65)	Auto[8]		–	–	–	○	○	○
	On[8]		○	○	○	○	–	–
	Off		○	○	○	○	○	○
LCD Monitor Setting (p. 58)	No Information		○	○	○	○	○	–
	Information View		○	○	○	○	○	○
AF Frame (p. 101)	Face Detect		○	○	○	○	○	○
	Center		○	○	○	○	○	–
AF Frame Size (p. 103)	Standard		○	○	○	○	○	○
	Small		○	○	○	○	–	–

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												ISO 3200		
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Function		M	Av	Tv	P	AUTO	(Special Scene)
AF-Point Zoom (p. 97)		○	○	○	○	○	–
Digital Zoom[9] (p. 61)	Standard	○	○	○	○	○	○[10]
	Digital Tele-converter	○	○	○	○	○	–
Flash Settings (p. 95)	Flash Mode	○[11]	○	○	–	–	–
	Red-Eye Correction	○	○	○	○	○	–
	Red-Eye Lamp	○	○	○	○	○	○[10]
	Flash Output	○	○	○	–	–	–
	Slow Synchro	○[10]	○	○[10]	○	–	–
	Safety FE	–	○	○	○	–	–
Self-Timer (Custom Timer) (p. 69)		○	○	○	○	○	–
Safety Shift (p. 84)		–	○	○	–	–	–
Auto ISO Shift (p. 75)		–	○	–	○	○	–
MF-Point Zoom (p. 108)		○	○	○	○	–	–
Safety MF (p. 109)		○	○	○	○	–	–
AF Mode (p. 100)	Continuous	○	○	○	○	○	○
	Single	○	○	○	○	○	–
AF-assist Beam (p. 53)		○	○	○	○	○	○[10]
Review (Rec. review) (p. 54)		○	○	○	○	○	○[13]
Review Info (p. 54)	Off	○	○	○	○	○	○
	Detailed/Focus Check	○	○	○	○	○	–
Auto Category (p. 121)		○	○	○	○	○	○[10]
Disp. Overlay (p. 120)	Off	○	○	○	○	○	○
	Grid Lines	○	○	○	○	○	–
	3:2 Guide/Both	○	○	○	○	○	–
IS Mode (p. 72)	Off	○	○	○	○	○	–
	Continuous	○	○	○	○	○	○
	Shoot Only/Panning	○	○	○	○	○	–
Registering settings to the (Print/Share) button (p. 122)		○	○	○	○	○	–

○ :Setting available or optimum value is automatically set by the camera.

– :Not available.

1) Set to optimum value depending on each shooting mode.
2) Set to continuous shooting LV in manual focus or Fireworks mode.
3) Fix to Large size.
4) Fix to Medium 3 size.
5) Fix to Fine.
6) Only Av (Aperture Value) can be set.
7) Only Tv (Shutter Speed) can be set.
8) Cannot fire when flash is not raised.
9) Date stamp and Widescreen are not available.
10) Always set to on.
11) Only available when the flash is set to [On].
12) Available when the flash fires.
13) Fix to 2 seconds.

SCN														
												ISO 3200		
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–	○[10)]	○[10)]	–	–	○[10)]	○[10)]	–	–	–	–	–	–	–	–
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